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ABSTRACT

This report provides tabular data derived from three surveys conducted in the National Science Foundation's Division of Science Resources Studies regarding science and engineering education in traditionally black colleges. Tables 1 through 4 are derived from the Survey of Scientific and Engineering Expenditures at Universities and Colleges. This survey is conducted annually and covers a sample of 403 institutions of higher education that grant a graduate science or engineering degree and/or perform at least $50,000 in separately-budgeted research and development expenditures. Tables 5 through 10 are derived from the Survey of Federal Support to Universities, Colleges and Nonprofit Institutions. This survey is conducted annually and collects data on Federal obligations to universities and colleges from 15 agencies that provide science and engineering funding to higher education institutions. Tables 11 through 23 are derived from the Survey of Graduate Science and Engineering Students and Postdoctorates. This survey is conducted annually and collects data from 618 graduate institutions offering courses of study at the postbaccalaureate level in any science or engineering field. (TW)

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SELECTED DATA ON HISTORICALLY BLACK COLLEGES ACADEMIC YEAR 1986

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UNIVERSITIES & COLLEGES STUDIES GROUP

STATISTICAL ANALYSIS SECTION

DIVISION OF SCIENCE RESOURCES STUDIES

NATIONAL SCIENCE FOUNDATION

DECEMBER 1987

BEST COPY AVAILABLE

GENERAL NOTES

Data presented in this report are derived from three surveys conducted in the National Science Foundation's Division of Science Resources Studies.

Tables 1 through 4 are derived from the Survey of Scientific and Engineering Expenditures at Universities and Colleges. This survey is conducted annually and covers a sample of 403 institutions of higher education that grant a graduate science or engineering degree and/or perform at least $50,000 in separately-budgeted research and development expenditures.

Tables 5 through 10 are derived from the Survey of Federal Support to Universities, Colleges and Nonprofit Institutions. This survey is conducted annually and collects data on Federal obligations to universities and colleges from 15 agencies that provide science and engineering funding to higher education institutions.

Tables 11 through 23 are derived from the Survey of Graduate Science and Engineering Students and Postdoctorates. This survey is conducted annually and collects data from 618 graduate institutions offering courses of study at the post-baccalaureate level in any science or engineering field.

For further information on the academic science/engineering surveys' data availability, please contact NSF staff responsible for each survey system as listed below:

Expenditures Survey: Marge Machen (202) 634-4673
Federal Support Survey: Richard Bennof (202) 634-4636
Graduate Student Survey: J.G. Huckenpahler (202) 634-4787

ACADEMIC SCIENCE/ENGINEERING SURVEY DISKETTES

The National Science Foundation (NSF) offers a free diskette service to those who wish to obtain data resulting from the most recent surveys conducted by the Division of Science Resources Studies.

Each data set is released on 5-1/4" diskettes suitable for use on IBM-compatible personal computers and is provided to the user upon receipt of the correct number of blank diskettes. All data sets contain the detailed statistical tables, technical notes, and a table of contents. Data sets are prepared in either standard ASCII format (including a table-printing program) or in LOTUS 1-2-3 (Release 1A) format. Some data sets are available in both formats. For further information concerning diskettes, contact NSF Diskette Service, RDS Systems, Inc., 6110 Executive Blvd., Suite 605, Rockville, Maryland 20852.

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Remote access to Science Resources Studies data is available from the Electronic Bulletin Board via any personal computer equipped with a modem. It contains comprehensive statistical tabulations, brief narrative reports on current studies, and announcements of available data sets. Textual BULLETINS can be viewed while on the Board, but tabulations or FILES must be downloaded to the user's computer for viewing. The telephone number is (202) 634-1764. The Board is capable of handling 300, 1200, or 2400 Baud, with 8 data bits, No parity, 1 stop bit, and XMODEM protocol. For more information and help, dial (202) 634-4250.

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Table 1 — R&D EXPENDITURES AT HISTORICALLY BLACK COLLEGES BY SOURCE OF FUNDS, CHARACTER OF WORK, AND SCIENCE/ENGINEERING FIELD: FISCAL YEARS 1979-86

(DOLLARS IN THOUSANDS)

SOURCE, CHARACTER, AND FIELD	1979	1980	1981	1982	1983	1984	1985	1986
TOTAL	31,675	41,192	40,348	47,365	49,447	61,339	63,721	68,080
SOURCE OF FUNDS:								
FEDERAL GOVERNMENT	27,016	34,774	34,635	38,256	40,674	53,772	58,195	62,725
STATE AND LOCAL GOVERNMENTS	1,700	1,742	1,485	3,783	2,899	1,103	1,267	1,060
INDUSTRY	568	910	473	597	525	813	1,357	1,446
INSTITUTIONAL FUNDS	1,471	2,043	2,713	3,483	3,641	3,720	1,872	1,333
ALL OTHER SOURCES	920	1,723	1,042	1,246	1,708	1,931	1,030	1,516
CHARACTER OF WORK:								
BASIC RESEARCH	20,403	27,063	26,500	35,418	35,487	44,570	49,803	53,147
APPLIED RESEARCH AND DEVELOPMENT	11,272	14,129	13,848	11,947	13,960	16,769	13,918	14,933
FIELD:								
ENGINEERING, TOTAL 1/	1,716	1,703	2,184	2,260	2,432	3,985	6,177	6,652
AERONAUTICAL AND ASTRONAUTICAL	-	46	201	394	130	98	98	184
CHEMICAL	-	49	41	26	25	89	129	174
CIVIL	-	119	330	457	414	747	514	203
ELECTRICAL	-	329	965	838	1,186	1,697	1,817	1,392
MECHANICAL	-	349	522	394	312	609	1,020	1,509
OTHER, N.E.C.	-	811	125	151	365	745	2,599	3,190
ALL SCIENCES, TOTAL	29,959	39,489	38,164	45,105	47,015	57,354	57,544	61,428
PHYSICAL SCIENCES	4,044	5,151	5,388	6,202	7,197	10,315	10,900	11,843
ASTRONOMY	164	234	101	137	107	140	59	60
CHEMISTRY	3,024	3,861	4,231	4,705	5,156	7,715	8,155	9,062
PHYSICS	750	569	692	805	1,374	2,387	2,582	2,481
OTHER, N.E.C.	106	487	364	555	560	73	104	240
ENVIRONMENTAL SCIENCES 1/	539	704	723	1,270	1,537	757	1,013	1,173
ATMOSPHERIC	-	1	34	40	37	37	36	1
EARTH SCIENCES	-	552	383	450	650	297	348	378
OCEANOGRAPHY	-	51	77	63	70	62	214	468
OTHER, N.E.C.	-	100	229	717	780	361	415	326
MATHEMATICAL SCIENCES	388	605	741	1,208	896	1,041	1,026	1,359
COMPUTER SCIENCES	218	356	215	380	209	268	648	251
LIFE SCIENCES	20,155	26,627	27,001	31,707	33,361	38,635	39,945	42,603
AGRICULTURAL SCIENCES	8,676	10,574	12,583	13,375	16,780	19,609	20,311	20,812
BIOLOGICAL SCIENCES	6,490	8,531	8,184	10,136	9,578	10,840	10,411	10,361
MEDICAL SCIENCES	3,150	3,314	2,247	2,736	3,697	5,378	8,930	10,992
OTHER, N.E.C.	1,839	4,208	3,987	5,460	3,306	2,808	293	438
PSYCHOLOGY	326	338	172	377	114	34	7	48
SOCIAL SCIENCES	3,645	5,162	3,126	2,466	2,613	5,849	3,533	3,933
ECONOMICS	1,047	960	1,058	407	296	3,644	1,030	1,308
POLITICAL SCIENCE	666	1,146	527	683	661	621	916	966
SOCIOLOGY	857	1,909	871	789	665	937	973	1,049
OTHER, N.E.C.	1,075	1,147	670	587	991	647	614	610
OTHER SCIENCES, N.E.C.	644	546	798	1,495	1,088	455	472	218

1/ DETAIL NOT SEPARATELY AVAILABLE PRIOR TO 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 2— FEDERALLY FINANCED R&D EXPENDITURES AT HISTORICALLY BLACK COLLEGES BY CHARACTER OF WORK AND SCIENCE/ENGINEERING FIELD: FISCAL YEARS 1979-86

(DOLLARS IN THOUSANDS)

CHARACTER, AND FIELD	1979	1980	1981	1982	1983	1984	1985	1986
TOTAL	27,016	34,774	34,635	38,256	40,674	53,772	58,195	62,725
CHARACTER OF WORK:								
BASIC RESEARCH	17,638	23,083	23,133	28,757	29,732	39,322	45,307	48,543
APPLIED RESEARCH AND DEVELOPMENT	9,378	11,691	11,502	9,499	10,942	14,450	12,888	14,182
FIELD:								
ENGINEERING, TOTAL 1/	1,231	1,117	2,014	2,019	1,994	3,273	5,298	5,610
AERONAUTICAL AND ASTRONAUTICAL	-	46	201	393	130	97	98	184
CHEMICAL	-	45	40	26	14	79	129	168
CIVIL	-	26	306	387	382	688	501	191
ELECTRICAL	-	190	885	738	926	1,501	1,656	1,081
MECHANICAL	-	292	475	346	241	468	891	1,193
OTHER, N.E.C.	-	518	107	129	301	440	2,023	2,793
ALL SCIENCES, TOTAL	25,785	33,657	32,621	36,237	38,680	50,499	52,897	57,115
PHYSICAL SCIENCES	3,517	4,557	4,650	4,956	5,796	9,317	10,110	11,088
ASTRONOMY	164	234	101	133	107	138	59	60
CHEMISTRY	2,554	3,328	3,593	3,981	4,347	6,887	7,569	8,460
PHYSICS	715	548	670	764	1,283	2,219	2,451	2,328
OTHER, N.E.C.	84	447	286	78	59	73	31	240
ENVIRONMENTAL SCIENCES 1/	528	675	589	656	755	449	665	878
ATMOSPHERIC	-	0	24	29	26	28	29	0
EARTH SCIENCES	-	537	363	411	589	236	304	342
OCEANOGRAPHY	-	47	60	33	34	36	191	427
OTHER, N.E.C.	-	91	142	183	106	149	141	109
MATHEMATICAL SCIENCES	135	252	349	331	292	441	991	1,110
COMPUTER SCIENCES	42	159	47	79	151	241	626	230
LIFE SCIENCES	17,555	23,426	24,013	28,008	30,077	34,530	37,396	40,249
AGRICULTURAL SCIENCES	8,033	10,190	12,005	12,609	16,128	18,081	19,091	19,737
BIOLOGICAL SCIENCES	5,450	7,565	7,043	8,978	8,767	9,937	9,893	9,890
MEDICAL SCIENCES	2,384	2,774	2,013	2,379	3,032	4,126	8,145	10,202
OTHER, N.E.C.	1,688	2,897	2,952	4,042	2,150	2,386	267	420
PSYCHOLOGY	313	327	161	359	86	32	7	48
SOCIAL SCIENCES	3,076	3,748	2,173	1,361	1,469	5,109	2,924	3,314
ECONOMICS	1,047	952	957	332	271	3,519	989	1,227
POLITICAL SCIENCE	472	200	133	295	388	565	785	856
SOCIOLOGY	624	1,618	544	524	350	888	821	880
OTHER, N.E.C.	933	978	539	210	460	137	329	351
OTHER SCIENCES, N.E.C.	619	513	639	487	54	380	178	198

1/ DETAIL NOT SEPARATELY AVAILABLE PRIOR TO 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 3 — NON-FEDERAL R&D EXPENDITURES AT HISTORICALLY BLACK COLLEGES BY SOURCE OF FUNDS, CHARACTER OF WORK, AND SCIENCE/ENGINEERING FIELD: FISCAL YEARS 1979-86

(DOLLARS IN THOUSANDS)

SOURCE, CHARACTER, AND FIELD	1979	1980	1981	1982	1983	1984	1985	1986
TOTAL NON-FEDERAL	4,659	6,418	5,713	9,109	8,773	7,567	5,526	5,355
SOURCE OF FUNDS:								
STATE AND LOCAL GOVERNMENTS ..	1,700	1,742	1,485	3,783	2,899	1,103	1,267	1,060
INDUSTRY	568	910	473	597	525	813	1,357	1,446
INSTITUTIONAL FUNDS	1,471	2,043	2,713	3,483	3,641	3,720	1,872	1,333
ALL OTHER SOURCES	920	1,723	1,042	1,246	1,708	1,931	1,030	1,516
CHARACTER OF WORK:								
BASIC RESEARCH	2,765	3,980	3,367	6,661	5,755	5,248	4,496	4,604
APPLIED RESEARCH AND DEVELOPMENT	1,894	2,438	2,346	2,448	3,018	2,319	1,030	751
FIELD:								
ENGINEERING, TOTAL 1/.....	485	586	170	241	436	712	879	1,042
AERONAUTICAL AND ASTRONAUTICAL	-	0	0	1	0	1	0	0
CHEMICAL	-	4	1	0	11	10	0	6
CIVIL	-	93	24	70	32	59	13	12
ELECTRICAL	-	139	80	100	260	196	161	311
MECHANICAL	-	57	47	48	71	141	129	316
OTHER, N.E.C.	-	293	18	22	64	305	576	397
ALL SCIENCES, TOTAL	4,174	5,832	5,543	8,868	8,335	6,855	4,647	4,313
PHYSICAL SCIENCES	527	594	738	1,246	1,401	998	790	755
ASTRONOMY	0	0	0	4	0	2	0	0
CHEMISTRY	470	533	638	724	809	828	586	602
PHYSICS	35	21	22	41	91	168	131	153
OTHER, N.E.C.	22	40	78	477	501	0	73	0
ENVIRONMENTAL SCIENCES 1/..	11	29	134	614	782	308	348	295
ATMOSPHERIC	-	1	10	11	11	9	7	1
EARTH SCIENCES	-	15	20	39	61	61	44	36
OCEANOGRAPHY	-	4	17	30	36	26	23	41
OTHER, N.E.C.	-	9	87	534	674	212	274	217
MATHEMATICAL SCIENCES	253	353	392	877	604	600	35	249
COMPUTER SCIENCES	176	197	168	301	58	27	22	21
LIFE SCIENCES	2,600	3,201	2,988	3,699	3,284	4,105	2,549	2,354
AGRICULTURAL SCIENCES ..	643	384	578	766	652	1,528	1,220	1,075
BIOLOGICAL SCIENCES	1,040	966	1,141	1,158	811	903	518	471
MEDICAL SCIENCES	766	540	234	357	665	1,252	785	790
OTHER, N.E.C.	151	1,311	1,035	1,418	1,156	422	26	18
PSYCHOLOGY	13	11	11	18	28	2	0	0
SOCIAL SCIENCES	569	1,414	953	1,105	1,144	740	609	619
ECONOMICS	0	8	101	75	25	125	41	81
POLITICAL SCIENCE	194	946	394	388	273	56	131	110
SOCIOLOGY	233	291	327	265	315	49	152	169
OTHER, N.E.C.	142	169	131	377	531	510	285	259
OTHER SCIENCES, N.E.C.	25	33	159	1,008	1,034	75	294	20

1/ DETAIL NOT SEPARATELY AVAILABLE PRIOR TO 1980.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 4 — TOTAL AND FEDERALLY FINANCED R&D EXPENDITURES AT HISTORICALLY BLACK COLLEGES: FISCAL YEARS 1983-86

(DOLLARS IN THOUSANDS)

INSTITUTIONAL RANKING	TOTAL				FEDERALLY FINANCED			
	1986	1985	1984	1983	1986	1985	1984	1983
TOTAL, ALL INSTITUTIONS	68,080	63,721	61,339	49,447	62,725	58,195	53,772	40,674
1 HOWARD UNIVERSITY	16,305	12,798	13,034	10,959	15,244	11,721	11,098	8,671
2 FLORIDA A & M UNIVERSITY	7,517I	7,439	9,784	4,227I	7,380I	7,266	8,341	1,241I
3 NC AG & TECH STATE UNIV	5,754	4,938	4,689	4,745	4,763	4,373	4,124	4,488
4 PRAIRIE VIEW A & M UNIV	4,467I	4,421I	4,497I	4,232I	4,257I	4,191I	3,976I	3,768I
5 ATLANTA UNIVERSITY	4,115I	3,711I	3,342	2,195	3,890I	3,507I	3,175	1,995E
6 MEHARRY MEDICAL COLLEGE	2,885I	2,601I	2,343I	2,157	2,375I	2,141I	1,938I	1,803
7 ALABAMA A & M UNIVERSITY	2,873I	2,843I	2,892	2,057	2,873I	2,843I	2,778	2,057
8 SOUTHERN U & A&M COLLEGE	2,845	3,191	3,068	2,401	2,715	3,071	3,023	2,401
9 TENNESSEE STATE UNIV	2,661	2,422E	2,182	1,804E	2,660	2,412E	2,164	1,789E
10 UNIVERSITY OF D C	2,371	2,172	1,362	910	1,706	1,508	678	505
TOTAL, 1ST 10 INSTS.	51,793	46,536	47,193	35,687	47,863	43,033	41,295	28,718
11 VIRGINIA STATE UNIVERSITY	2,138I	2,116	2,293	2,109I	2,058I	2,026	2,293	1,862I
12 COL OF THE VIRGIN ISLANDS	1,760	1,312	1,231	832I	1,043	742	581	714I
13 U OF MD EASTERN SHORE	1,615	1,437I	1,462I	1,376E	1,606	1,148I	1,089I	1,032E
14 SOUTH CAROLINA ST COLLEGE	1,560I	1,544I	1,570I	1,478I	1,560I	1,544I	1,554I	1,473I
15 ALCORN STATE UNIVERSITY	1,501I	1,485	1,069I	1,006I	1,501I	1,485	1,059I	1,004I
16 JACKSON STATE UNIVERSITY	1,336I	1,322I	1,345I	1,266I	1,014I	998I	947I	897I
17 KENTUCKY STATE UNIVERSITY	1,248I	1,235I	1,256	1,101I	1,248I	1,235I	1,256	1,101I
18 TEXAS SOUTHERN UNIV	1,078I	1,067	322	497	966I	951	302	396
19 UNIV OF ARK PINE BLUFF	1,010	1,002	885	1,500	1,010	1,002	885	1,056E
20 MORGAN STATE UNIVERSITY	886	2,532	177I	167I	860	2,062	150I	142I
TOTAL, 1ST 20 INSTS.	65,925	61,588	58,803	47,019	60,729	56,226	51,411	38,395
21 TUSKEGEE UNIVERSITY	831I	822	1,060I	998E	793I	781	1,053I	998E
22 NORFOLK STATE UNIVERSITY	594I	588	740I	696I	594I	588	732I	694I
23 FISK UNIVERSITY	238I	236I	240I	226I	219I	216I	205I	194I
24 NORTH CAROLINA CNTRL UNIV	212I	210I	214I	201I	124I	122I	116I	110I
25 GRAMBLING STATE UNIV	184I	182I	185I	174I	170I	167I	158I	150I
26 ALBANY STATE COLLEGE	96I	95I	97	133	96I	95I	97	133
27 MOREHOUSE SCHOOL OF MED	0I	0I	0	0	0I	0I	0	0
28 DILLARD UNIVERSITY	0I	0I	0	0	0I	0I	0	0
29 LINCOLN UNIVERSITY (PA)	0I	0I	0	0	0I	0I	0	0
30 MISS VALLEY STATE UNIV	0I	0I	0	0	0I	0I	0	0
TOTAL, 1ST 30 INSTS.	68,080	63,721	61,339	49,447	62,725	58,195	53,772	40,674

NOTE: A NUMBER OF INSTITUTIONS HAVE DEVELOPED OR ARE IN THE PROCESS OF DEVELOPING NEW COMPUTER SYSTEMS AND METHODOLOGIES WHICH ENABLE THEM TO REPORT MORE ACCURATELY THE TOTAL COST OF SCIENCE AND ENGINEERING RESEARCH. FY 1986 COMPARISONS WITH DATA REPORTED IN EARLIER YEARS MAY BE INAPPROPRIATE IN SOME AREAS.

NUMBERS FOLLOWED BY THE LETTER "E" ARE ESTIMATED;
NUMBERS FOLLOWED BY "I" ARE IMPUTED.
DASHES INDICATE THAT DATA ARE NOT AVAILABLE;
DASHES FOLLOWED BY "C" INDICATE CONFIDENTIAL DATA.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 5 — FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED: FISCAL YEARS 1980-86

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED IN FISCAL YEAR 1986)	1980	1981	1982	1983	1984	1985	1986
TOTAL, ALL INSTITUTIONS	36,503	39,809	40,463	49,102	50,321	56,593	57,042
1 HOWARD UNIVERSITY	7,194	7,996	8,023	8,777	8,807	13,733	9,497
2 NC AG & TECH STATE UNIV	2,157	2,964	2,606	3,789	3,609	3,191	3,620
3 ATLANTA UNIVERSITY	503	991	1,004	1,747	1,586	3,220	3,283
4 MEHARRY MEDICAL COLLEGE	1,151	1,072	980	1,791	1,335	2,641	3,024
5 TUSKEGEE INSTITUTE	2,620	1,812	1,836	3,515	3,021	2,524	3,021
6 ALABAMA A & M UNIVERSITY	1,787	1,640	1,485	1,730	2,632	2,488	2,660
7 FLORIDA A & M UNIVERSITY	859	1,120	1,160	1,301	1,725	2,633	2,368
8 PRAIRIE VIEW A & M UNIV	1,672	1,860	1,929	2,911	2,696	2,257	2,308
9 TENNESSEE STATE UNIV	1,384	1,611	1,831	1,903	2,443	2,235	2,307
10 VIRGINIA STATE UNIVERSITY	1,242	1,198	1,285	1,754	1,426	1,769	1,863
TOTAL 1ST 10 INSTITUTIONS	20,569	22,264	22,139	29,218	29,280	36,691	33,951
11 SOUTHERN U & A&M COLLEGE	1,305	1,238	1,101	1,659	1,732	1,286	1,805
12 FORT VALLEY STATE COLLEGE	1,391	1,487	1,606	1,681	1,828	1,841	1,753
13 KENTUCKY STATE UNIVERSITY	1,510	1,772	1,510	1,580	1,637	1,612	1,638
14 MOREHOUSE SCHOOL OF MED	–	–	–	315	733	335	1,628
15 LINCOLN UNIVERSITY (MO)	1,174	1,229	1,395	1,477	1,515	1,548	1,452
16 TEXAS SOUTHERN UNIV	337	72	296	222	760	304	1,415
17 ALCORN STATE UNIVERSITY	1,196	1,220	1,312	1,382	1,365	1,191	1,348
18 HAMPTON INSTITUTE	596	498	629	998	992	1,160	1,326
19 JACKSON STATE UNIVERSITY	528	825	929	1,075	939	435	1,279
20 UNIV OF ARK PINE BLUFF	1,044	993	1,148	1,124	1,185	1,236	1,157
TOTAL 1ST 20 INSTITUTIONS	29,650	31,598	32,065	40,731	41,966	47,639	48,752
21 SOUTH CAROLINA ST COLLEGE	924	1,025	1,091	1,137	1,188	996	1,112
22 LANGSTON UNIVERSITY	806	872	973	1,016	1,034	885	1,073
23 FISK UNIVERSITY	65	107	62	90	384	264	934
24 COL OF THE VIRGIN ISLANDS	650	878	890	1,067	599	931	916
25 U OF MD EASTERN SHORE	891	1,006	806	1,325	762	779	776
26 UNIVERSITY OF D C	788	815	1,106	636	818	776	749
27 DELAWARE STATE COLLEGE	423	1,031	455	491	508	455	441
28 MOREHOUSE COLLEGE	233	653	685	546	313	558	392
29 LINCOLN UNIVERSITY (PA)	140	53	65	0	357	417	360
30 MORGAN STATE UNIVERSITY	172	306	312	760	372	813	274
TOTAL 1ST 30 INSTITUTIONS	34,742	38,344	38,510	47,799	48,301	54,513	55,779
31 BENEDICT COLLEGE	89	0	0	0	406	224	151
32 GRAMBLING STATE UNIV	34	45	0	117	10	102	124
33 WINSTON-SALEM STATE UNIV	0	0	0	0	0	92	112
34 TOUGALOO COLLEGE	0	50	0	0	0	75	96
35 XAVIER UNIVERSITY OF LA	98	29	139	12	149	130	90
36 SHAW UNIVERSITY	0	1	0	0	0	0	85
37 VOORHEES COLLEGE	0	50	0	0	0	0	85
38 NORFOLK STATE UNIVERSITY	56	25	0	83	114	35	82
39 CLARK COLLEGE	280	86	25	220	167	90	80
40 OAKWOOD COLLEGE	0	0	0	75	118	0	75
TOTAL 1ST 40 INSTITUTIONS	35,299	38,630	38,674	48,306	49,265	55,261	56,759
41 BOWIE STATE COLLEGE	78	125	110	112	150	300	70
42 RUST COLLEGE	0	0	0	0	43	90	53
43 CLAFLIN COLLEGE	31	0	21	0	0	0	48
44 ALABAMA STATE UNIVERSITY	0	0	0	104	168	0	45
45 SPELMAN COLLEGE	70	52	27	0	204	129	33
46 DILLARD UNIVERSITY	0	0	0	10	100	93	27
47 KNOXVILLE COLLEGE	0	0	0	0	0	0	7
ALBANY STATE COLLEGE 1/	24	0	750	0	0	0	0
BARBER-SCOTIA COLLEGE	0	77	0	0	0	0	0
BETHUNE COOKMAN COLLEGE	21	0	0	0	0	20	0
TOTAL 1ST 50 INSTITUTIONS	35,523	38,884	39,582	48,532	49,930	55,893	57,042

SEE FOOTNOTES AT END OF TABLE.

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Table 5 — FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED: FISCAL YEARS 1980-86

CONTINUED

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED IN FISCAL YEAR 1986)	1980	1981	1982	1983	1984	1985	1986
BISHOP COLLEGE	88	83	42	30	32	0	0
CENTRAL STATE UNIVERSITY	0	0	169	72	52	106	0
COAHOMA JUNIOR COLLEGE	0	0	0	50	0	0	0
COPPIN STATE COLLEGE	49	32	114	20	85	0	0
EDWARD WATERS COLLEGE	30	0	50	55	0	0	0
FAYETTEVILLE STATE UNIV	0	0	58	0	0	0	0
FLORIDA MEMORIAL COLLEGE	50	0	0	72	0	0	0
LANE COLLEGE	0	0	0	1	0	0	0
LAWSON STATE CMTY COLLEGE	25	0	0	0	0	0	0
LE MOYNE-OWEN COLLEGE	38	0	0	0	0	0	0
LIVINGSTONE COLLEGE	64	0	0	0	0	0	0
MISS VALLEY STATE UNIV	49	0	0	0	31	0	0
MORRIS BROWN COLLEGE	55	83	46	0	0	14	0
NORTH CAROLINA CNTRL UNIV	331	572	201	75	141	534	0
PRENTISS NORM & IND INST	0	0	0	97	0	0	0
SAVANNAH STATE COLLEGE	23	93	71	0	0	0	0
SELMA UNIVERSITY	0	0	0	34	0	0	0
SHAW COLLEGE AT DETROIT	0	0	0	64	0	0	0
ST AUGUSTINES COLLEGE	0	62	100	0	50	0	0
TALLADEGA COLLEGE	100	0	30	0	0	0	0
U DC GA AVE & HARV ST CAM	-	-	-	-	0	46	0
VIRGINIA UNION UNIVERSITY	68	0	0	0	0	0	0
WILBERFORCE UNIVERSITY	10	0	0	0	0	0	0
TOTAL 1ST 73 INSTITUTIONS	36,503	39,809	40,463	49,102	50,321	56,593	57,042

1/ INSTITUTIONS HAVING NO CURRENT YEAR OBLIGATIONS ARE LISTED IN ALPHABETICAL ORDER.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 6— FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED, BY AGENCY: FISCAL YEAR 1986

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED)	TOTAL	USDA	COM	DOD	ED	DOE	EPA	HHS	INT	NASA	NSF	OTHER 1/
TOTAL, ALL INSTITUTIONS	57,042	23,057	322	3,055	2,530	3,544	383	13,622	411	5,550	4,032	536
1 HOWARD UNIVERSITY	9,497	0	22	470	2,393	406	0	4,874	0	882	450	0
2 NC AG & TECH STATE UNIV	3,620	2,016	0	268	37	222	0	0	0	779	298	0
3 ATLANTA UNIVERSITY	3,283	9	0	825	50	176	0	1,308	0	305	511	99
4 MEHARRY MEDICAL COLLEGE	3,024	0	0	0	0	71	0	2,473	0	0	480	0
5 TUSKEGEE INSTITUTE	3,021	1,269	100	582	0	179	0	172	0	438	281	0
6 ALABAMA A & M UNIVERSITY	2,660	1,361	0	50	0	118	0	0	0	725	339	67
7 FLORIDA A & M UNIVERSITY	2,368	878	0	153	0	120	0	1,068	0	122	27	0
8 PRAIRIE VIEW A & M UNIV	2,308	2,030	0	70	0	0	0	0	0	208	0	0
9 TENNESSEE STATE UNIV	2,307	1,521	0	0	0	0	0	626	0	160	0	0
10 VIRGINIA STATE UNIVERSITY	1,863	1,416	0	0	0	247	0	0	0	200	0	0
TOTAL 1ST 10 INSTITUTIONS	33,951	10,500	122	2,418	2,480	1,539	0	10,521	0	3,819	2,386	166
11 SOUTHERN U & A&M COLLEGE	1,805	1,031	0	0	0	173	0	35	0	272	294	0
12 FORT VALLEY STATE COLLEGE	1,753	1,388	0	0	0	0	0	365	0	0	0	0
13 KENTUCKY STATE UNIVERSITY	1,638	1,563	0	0	50	0	25	0	0	0	0	0
14 MOREHOUSE SCHOOL OF MED	1,628	0	0	0	0	0	208	1,288	0	0	132	0
15 LINCOLN UNIVERSITY (MO)	1,452	1,447	0	0	0	0	0	0	5	0	0	0
16 TEXAS SOUTHERN UNIV	1,415	0	0	0	0	246	60	924	0	95	10	80
17 ALCORN STATE UNIVERSITY	1,348	1,348	0	0	0	0	0	0	0	0	0	0
18 HAMPTON INSTITUTE	1,326	20	100	292	0	70	0	0	20	397	427	0
19 JACKSON STATE UNIVERSITY	1,279	0	0	65	0	1,142	0	71	0	0	1	0
20 UNIV OF ARK PINE BLUFF	1,157	1,108	0	0	0	0	5	0	44	0	0	0
TOTAL 1ST 20 INSTITUTIONS	48,752	18,405	222	2,775	2,530	3,170	298	13,204	69	4,583	3,250	246
21 SOUTH CAROLINA ST COLLEGE	1,112	1,112	0	0	0	0	0	0	0	0	0	0
22 LANGSTON UNIVERSITY	1,073	1,061	0	0	0	0	0	0	12	0	0	0
23 FISK UNIVERSITY	934	0	0	0	0	82	0	0	0	382	300	170
24 COL OF THE VIRGIN ISLANDS	916	802	0	0	0	0	0	0	114	0	0	0
25 U OF MD EASTERN SHORE	776	741	0	0	0	0	0	0	0	35	0	0
26 UNIVERSITY OF D C	749	468	0	111	0	0	0	56	114	0	0	0
27 DELAWARE STATE COLLEGE	441	441	0	0	0	0	0	0	0	0	0	0
28 MOREHOUSE COLLEGE	392	0	0	0	0	69	0	0	62	0	261	0
29 LINCOLN UNIVERSITY (PA)	360	0	0	119	0	0	0	0	0	241	0	0
30 MORGAN STATE UNIVERSITY	274	0	0	0	0	0	0	0	0	239	0	35
TOTAL 1ST 30 INSTITUTIONS	55,779	23,030	222	3,005	2,530	3,321	298	13,260	371	5,480	3,811	451
31 BENEDICT COLLEGE	151	0	100	0	0	0	0	51	0	0	0	0
32 GRAMBLING STATE UNIV	124	0	0	0	0	34	0	50	40	0	0	0
33 WINSTON-SALEM STATE UNIV	112	0	0	0	0	54	0	58	0	0	0	0
34 TOUGALOO COLLEGE	96	0	0	0	0	0	0	0	0	0	96	0
35 XAVIER UNIVERSITY OF LA	90	0	0	50	0	0	0	40	0	0	0	0
36 VOORHEES COLLEGE	85	0	0	0	0	0	0	0	0	0	0	85
37 SHAW UNIVERSITY	85	0	0	0	0	0	85	0	0	0	0	0
38 NORFOLK STATE UNIVERSITY	82	0	0	0	0	0	0	35	0	0	47	0
39 CLARK COLLEGE	80	0	0	0	0	80	0	0	0	0	0	0
40 OAKWOOD COLLEGE	75	0	0	0	0	0	0	75	0	0	0	0
TOTAL 1ST 40 INSTITUTIONS	56,759	23,030	322	3,055	2,530	3,489	383	13,569	411	5,480	3,954	536
41 BOWIE STATE COLLEGE	70	0	0	0	0	0	0	0	0	70	0	0
42 RUST COLLEGE	53	0	0	0	0	0	0	53	0	0	0	0
43 CLAFLIN COLLEGE	48	0	0	0	0	48	0	0	0	0	0	0
44 ALABAMA STATE UNIVERSITY	45	0	0	0	0	0	0	0	0	0	45	0
45 SPELMAN COLLEGE	33	0	0	0	0	0	0	0	0	0	33	0
46 DILLARD UNIVERSITY	27	27	0	0	0	0	0	0	0	0	0	0
47 KNOXVILLE COLLEGE	7	0	0	0	0	7	0	0	0	0	0	0
TOTAL 1ST 47 INSTITUTIONS	57,042	23,057	322	3,055	2,530	3,544	383	13,622	411	5,550	4,032	536

1/ INCLUDES DOT, AID, HUD, LABOR, AND NRC.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 7 — FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED, BY AREA OF SCIENCE/ENGINEERING: FISCAL YEAR 1986

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED)	TOTAL	ENGI-NEERING	PHYSICAL SCIENCES	MATH & COMPUTER SCIENCES	ENVIRON-MENTAL SCIENCES	LIFE SCIENCES	PSYCHOL-OGY	SOCIAL SCIENCES	OTHER SCIENCES, NEC
TOTAL, ALL INSTITUTIONS	57,042	3,569	7,692	1,579	1,354	26,863	409	8,223	7,353
1 HOWARD UNIVERSITY	9,497	564	781	140	142	5,132	236	1,843	659
2 NC AG & TECH STATE UNIV	3,620	1,144	406	10	0	1,351	0	709	0
3 ATLANTA UNIVERSITY	3,283	99	1,522	165	0	273	0	145	1,079
4 MEHARRY MEDICAL COLLEGE	3,024	0	0	0	0	1,732	0	153	1,139
5 TUSKEGEE INSTITUTE	3,021	151	121	0	379	1,561	0	359	450
6 ALABAMA A & M UNIVERSITY	2,660	366	375	0	40	1,511	0	300	68
7 FLORIDA A & M UNIVERSITY	2,368	0	358	0	0	771	0	164	1,075
8 PRAIRIE VIEW A & M UNIV	2,308	101	111	0	0	1,861	0	235	0
9 TENNESSEE STATE UNIV	2,307	160	254	0	0	756	0	631	506
10 VIRGINIA STATE UNIVERSITY	1,863	247	200	0	0	1,163	0	253	0
TOTAL 1ST 10 INSTITUTIONS	33,951	2,832	4,128	315	561	16,111	236	4,792	4,976
11 SOUTHERN U & A&M COLLEGE	1,805	0	173	272	0	996	0	364	0
12 FORT VALLEY STATE COLLEGE	1,753	37	19	0	0	1,402	0	295	0
13 KENTUCKY STATE UNIVERSITY	1,638	0	20	5	25	1,183	0	405	0
14 MOREHOUSE SCHOOL OF MED	1,628	0	0	0	0	668	0	0	960
15 LINCOLN UNIVERSITY (MO)	1,452	0	0	0	0	1,339	0	113	0
16 TEXAS SOUTHERN UNIV	1,415	25	221	10	60	149	80	0	870
17 ALCORN STATE UNIVERSITY	1,348	0	54	0	0	731	0	563	0
18 HAMPTON INSTITUTE	1,326	116	769	115	20	20	0	100	186
19 JACKSON STATE UNIVERSITY	1,279	95	799	164	35	114	0	50	22
20 UNIV OF ARK PINE BLUFF	1,157	0	127	0	0	867	0	163	0
TOTAL 1ST 20 INSTITUTIONS	48,752	3,105	6,310	881	701	23,580	316	6,845	7,014
21 SOUTH CAROLINA ST COLLEGE	1,112	0	0	0	0	518	0	594	0
22 LANGSTON UNIVERSITY	1,073	0	0	0	0	937	0	136	0
23 FISK UNIVERSITY	934	170	476	206	50	32	0	0	0
24 COL OF THE VIRGIN ISLANDS	916	33	39	0	75	755	0	14	0
25 U OF MD EASTERN SHORE	776	35	265	0	0	253	0	223	0
26 UNIVERSITY OF D C	749	0	310	111	75	227	0	26	0
27 DELAWARE STATE COLLEGE	441	0	0	0	0	401	0	40	0
28 MOREHOUSE COLLEGE	392	131	0	0	261	0	0	0	0
29 LINCOLN UNIVERSITY (PA)	360	0	0	241	0	0	0	0	119
30 MORGAN STATE UNIVERSITY	274	0	200	0	20	0	35	0	19
TOTAL 1ST 30 INSTITUTIONS	55,779	3,474	7,600	1,439	1,182	26,703	351	7,878	7,152
31 BENEDICT COLLEGE	151	0	51	0	0	0	0	100	0
32 GRAMBLING STATE UNIV	124	0	34	0	0	40	0	50	0
33 WINSTON-SALEM STATE UNIV	112	0	0	0	54	0	58	0	0
34 TOUGALOO COLLEGE	96	0	0	0	0	0	0	0	96
35 XAVIER UNIVERSITY OF LA	90	0	0	0	0	40	0	0	50
36 VOORHEES COLLEGE	85	0	0	0	0	0	0	85	0
37 SHAW UNIVERSITY	85	0	0	0	85	0	0	0	0
38 NORFOLK STATE UNIVERSITY	82	0	0	47	0	0	0	35	0
39 CLARK COLLEGE	80	80	0	0	0	0	0	0	0
40 OAKWOOD COLLEGE	75	0	0	0	0	0	0	75	0
TOTAL 1ST 40 INSTITUTIONS	56,759	3,554	7,685	1,486	1,321	26,783	409	8,223	7,298
41 BOWIE STATE COLLEGE	70	0	7	63	0	0	0	0	0
42 RUST COLLEGE	53	0	0	0	0	53	0	0	0
43 CLAFLIN COLLEGE	48	0	0	0	0	0	0	0	48
44 ALABAMA STATE UNIVERSITY	45	15	0	30	0	0	0	0	0
45 SPELMAN COLLEGE	33	0	0	0	33	0	0	0	0
46 DILLARD UNIVERSITY	27	0	0	0	0	27	0	0	0
47 KNOXVILLE COLLEGE	7	0	0	0	0	0	0	0	7
TOTAL 1ST 47 INSTITUTIONS	57,042	3,569	7,692	1,579	1,354	26,863	409	8,223	7,353

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 8 — FEDERAL OBLIGATIONS TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED: FISCAL YEARS 1980-86

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED IN FISCAL YEAR 1986)	1980	1981	1982	1983	1984	1985	1986
TOTAL, ALL INSTITUTIONS	423,870	413,224	493,767	371,601	570,825	535,659	576,453
1 HOWARD UNIVERSITY	166,146	153,335	177,553	144,807	180,733	163,879	169,084
2 JACKSON STATE UNIVERSITY	12,719	7,772	10,374	4,992	10,492	10,845	16,451
3 SOUTHERN U & A&M COLLEGE	9,981	9,234	11,367	8,486	17,155	16,943	14,850
4 TUSKEGEE INSTITUTE	10,038	10,416	8,700	16,362	23,242	13,681	14,281
5 VIRGINIA STATE UNIVERSITY	5,732	4,992	5,903	5,243	7,503	8,258	12,084
6 GRAMBLING STATE UNIV	3,055	3,394	5,087	3,605	7,602	7,432	12,073
7 TENNESSEE STATE UNIV	7,951	7,927	9,516	12,357	15,046	14,756	11,982
8 PRAIRIE VIEW A & M UNIV	7,306	7,709	8,745	7,108	11,421	10,966	11,713
9 NC AG & TECH STATE UNIV	8,046	8,376	8,890	10,367	11,331	10,542	11,396
10 FLORIDA A & M UNIVERSITY	6,208	6,442	7,566	4,508	9,132	10,481	11,376
TOTAL 1ST 10 INSTITUTIONS	237,182	219,597	253,701	217,835	293,657	267,783	285,290
11 ALABAMA A & M UNIVERSITY	6,954	4,776	5,408	5,707	8,808	8,351	9,407
12 SOUTH CAROLINA ST COLLEGE	6,270	3,917	6,915	4,629	7,330	9,341	9,055
13 ATLANTA UNIVERSITY	1,858	2,041	2,397	3,049	3,990	5,315	8,791
14 MEHARRY MEDICAL COLLEGE	14,334	16,477	11,795	11,852	8,944	9,904	8,779
15 ALCORN STATE UNIVERSITY	3,953	5,635	6,510	5,032	7,433	6,867	7,755
16 TEXAS SOUTHERN UNIV	4,334	4,800	9,138	3,210	6,894	5,785	7,440
17 NORFOLK STATE UNIVERSITY	3,789	4,714	10,026	5,974	6,261	6,815	7,254
18 UNIV OF ARK PINE BLUFF	3,911	3,450	5,379	3,609	5,644	6,158	7,137
19 HAMPTON INSTITUTE	4,455	4,378	5,417	3,739	6,358	5,975	6,844
20 FORT VALLEY STATE COLLEGE	3,179	3,230	4,723	4,827	6,612	6,393	6,822
TOTAL 1ST 20 INSTITUTIONS	290,219	273,015	321,409	269,463	361,931	338,687	364,574
21 UNIVERSITY OF D C	2,194	5,853	6,500	2,271	6,478	6,256	6,621
22 ALABAMA STATE UNIVERSITY	2,475	2,505	5,583	2,026	5,193	6,044	6,561
23 KENTUCKY STATE UNIVERSITY	4,164	4,872	4,260	5,643	5,948	5,751	5,843
24 NORTH CAROLINA CNTRL UNIV	4,297	4,505	5,780	2,601	5,747	5,542	5,706
25 LINCOLN UNIVERSITY (MO)	2,690	3,429	4,235	4,272	5,148	5,384	5,389
26 MISS VALLEY STATE UNIV	3,961	2,507	3,999	1,759	4,684	4,618	5,302
27 MORGAN STATE UNIVERSITY	3,745	2,623	4,843	2,716	5,068	5,660	5,251
28 BETHUNE COOKMAN COLLEGE	2,845	2,970	4,116	1,543	4,127	4,174	5,017
29 EDWARD WATERS COLLEGE	939	932	3,531	992	2,196	1,769	4,935
30 XAVIER UNIVERSITY OF LA	4,088	4,316	3,889	2,330	4,812	4,959	4,847
TOTAL 1ST 30 INSTITUTIONS	321,617	307,527	368,145	295,616	411,332	388,844	420,046
31 CENTRAL STATE UNIVERSITY	3,153	2,591	3,271	1,756	4,040	4,759	4,773
32 LANGSTON UNIVERSITY	2,944	2,657	2,978	2,839	4,264	4,196	4,645
33 FAYETTEVILLE STATE UNIV	1,465	948	3,182	1,312	4,051	3,788	4,478
34 CLARK COLLEGE	2,773	3,374	2,860	1,772	3,910	3,626	4,477
35 ST AUGUSTINES COLLEGE	2,991	2,400	3,593	3,846	7,179	4,018	4,286
36 BENEDICT COLLEGE	2,403	2,797	3,252	1,920	3,411	4,793	4,207
37 WILBERFORCE UNIVERSITY	2,210	3,183	3,909	2,206	4,089	3,793	4,176
38 WINSTON-SALEM STATE UNIV	2,405	3,302	2,920	1,084	3,787	3,692	4,002
39 U OF MD EASTERN SHORE	2,725	2,761	2,771	3,181	4,178	3,909	3,945
40 FLORIDA MEMORIAL COLLEGE	1,234	1,789	1,576	879	3,290	3,475	3,921
TOTAL 1ST 40 INSTITUTIONS	345,920	333,329	398,457	316,411	453,531	428,893	462,956
41 SHAW UNIVERSITY	2,293	1,694	3,226	1,618	3,086	2,985	3,814
42 COPPIN STATE COLLEGE	2,276	2,662	2,595	1,164	3,248	3,039	3,794
43 MORRIS BROWN COLLEGE	2,626	2,193	2,827	1,026	3,084	2,625	3,551
44 ALBANY STATE COLLEGE	1,534	2,290	3,399	2,092	3,007	2,654	3,472
45 LINCOLN UNIVERSITY (PA)	2,050	1,315	1,839	1,416	2,986	3,595	3,377
46 RUST COLLEGE	1,758	2,472	2,095	1,146	1,986	3,285	3,377
47 SAVANNAH STATE COLLEGE	1,404	2,822	2,503	1,564	3,666	2,720	3,348
48 FISK UNIVERSITY	1,811	2,159	1,666	1,186	2,142	2,568	3,329
49 DILLARD UNIVERSITY	2,166	3,051	2,156	1,231	2,748	3,320	3,312
50 ELIZABETH CITY STATE UNIV	1,788	1,700	3,875	912	2,963	2,704	3,157
TOTAL 1ST 50 INSTITUTIONS	365,626	355,687	424,638	329,766	482,447	458,388	497,487

SEE FOOTNOTES AT END OF TABLE.

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Table 8 — FEDERAL OBLIGATIONS TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED: FISCAL YEARS 1980-86

CONTINUED (DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED IN FISCAL YEAR 1986)	1980	1981	1982	1983	1984	1985	1986
51 TOUGALOO COLLEGE	1,880	2,826	2,253	1,364	2,265	2,474	3,082
52 DELAWARE STATE COLLEGE	1,977	2,389	2,720	2,338	2,865	2,921	3,065
53 JOHNSON C SMITH UNIV	2,051	1,439	2,531	1,085	2,629	3,754	3,055
54 LE MOYNE-OWEN COLLEGE	1,811	1,437	2,329	1,280	2,246	2,084	3,031
55 VIRGINIA UNION UNIVERSITY	1,666	1,132	2,148	887	2,555	2,115	2,738
56 MOREHOUSE COLLEGE	4,150	3,619	3,900	1,200	2,575	6,184	2,670
57 SPELMAN COLLEGE	1,296	1,951	1,623	553	2,450	2,364	2,597
58 MOREHOUSE SCHOOL OF MED	-	-	-	1,249	6,503	1,125	2,562
59 VOORHEES COLLEGE	1,336	1,138	2,054	1,070	1,854	2,109	2,443
60 STILLMAN COLLEGE	1,666	1,089	1,304	584	2,267	2,503	2,422
TOTAL 1ST 60 INSTITUTIONS	383,459	372,707	445,500	341,376	510,656	486,021	525,152
61 OAKWOOD COLLEGE	1,564	648	5,073	848	2,347	1,453	2,352
62 TALLADEGA COLLEGE	1,628	2,509	1,639	1,221	1,612	1,516	2,288
63 PAINE COLLEGE	1,247	923	1,809	848	2,387	2,509	2,286
64 CLAFLIN COLLEGE	1,000	905	1,448	738	2,168	2,141	2,266
65 LAWSON STATE CMTY COLLEGE	1,616	1,165	2,098	1,546	2,273	1,890	2,231
66 S D BISHOP ST JR COLLEGE	991	792	881	490	1,782	1,981	2,168
67 MORRIS COLLEGE	1,153	1,666	1,546	460	2,457	2,038	2,104
68 CHEYNEY UNIV OF PENN	2,540	2,114	2,095	1,002	1,845	2,409	2,070
69 LANE COLLEGE	3,024	1,133	1,958	787	2,211	2,406	2,016
70 COL OF THE VIRGIN ISLANDS	1,746	2,522	2,268	2,314	1,713	2,768	2,009
TOTAL 1ST 70 INSTITUTIONS	399,968	387,084	466,315	351,630	531,451	507,132	546,942
71 BOWIE STATE COLLEGE	872	803	1,287	712	1,839	1,616	1,860
72 BENNETT COLLEGE (NC)	801	704	755	720	1,121	1,241	1,801
73 BISHOP COLLEGE	1,459	1,841	2,076	824	2,515	1,737	1,749
74 MILES COLLEGE	2,130	2,486	1,345	1,040	2,340	1,824	1,747
75 HINDS J CO DIST UTICA CAM	1,202	1,103	1,595	716	1,295	1,306	1,735
76 ST PAUL'S COL (VA)	744	695	1,820	716	1,433	1,486	1,659
77 JARVIS CHRISTIAN COLLEGE	1,516	1,982	1,066	2,857	1,866	1,481	1,500
78 TEXAS COLLEGE	1,309	754	1,016	1,622	5,779	1,726	1,481
79 MARY HOLMES COLLEGE	1,183	1,108	1,215	624	2,332	1,984	1,457
80 LIVINGSTONE COLLEGE	1,191	1,184	1,695	90	1,665	1,304	1,417
TOTAL 1ST 80 INSTITUTIONS	412,375	399,744	480,185	361,551	553,636	522,837	563,348
81 PAUL QUINN COLLEGE	838	1,206	1,100	2,134	1,365	1,298	1,404
82 PHILANDER SMITH COLLEGE	806	1,499	927	509	1,236	1,180	1,374
83 WILEY COLLEGE	833	1,077	1,263	454	1,582	1,453	1,325
84 KNOXVILLE COLLEGE	1,409	679	1,847	737	1,933	1,931	1,308
85 BARBER-SCOTIA COLLEGE	751	1,019	824	444	1,232	1,102	1,266
86 HUSTON-TILLOTSON COLLEGE	710	1,044	719	442	1,070	1,387	1,022
87 CONCORDIA COLLEGE	328	239	338	195	852	781	994
88 SELMA UNIVERSITY	616	473	899	708	1,128	815	953
89 MORRISTOWN COLLEGE	348	190	332	89	624	485	757
90 SOUTHWESTN CHRISTIAN COL	262	229	423	63	712	636	727
TOTAL 1ST 90 INSTITUTIONS	419,276	407,399	488,857	367,326	565,370	533,905	574,478
91 ALLEN UNIVERSITY	257	335	611	36	582	526	674
92 ARKANSAS BAPTIST COLLEGE	166	294	165	42	365	365	374
93 SHORTER COLLEGE	165	119	206	56	435	256	352
94 COAHOMA JUNIOR COLLEGE	1,005	1,591	1,866	3,268	2,564	345	314
95 PRENTISS NORM & IND INST	279	287	0	257	333	205	182
96 INTERDENOMINA THEOL CTR	21	0	68	0	0	0	68
97 CLINTON JUNIOR COLLEGE	0	1	10	1	11	11	11
FRIENDSHIP COLLEGE 1/	190	174	0	-	0	0	-
LOMAX-HANNON JR COLLEGE	182	131	207	166	0	0	0
MISSISSIPPI INDUS COL	781	758	0	0	0	0	0
TOTAL 1ST 100 INSTITUTIONS	422,322	411,089	491,990	371,152	569,660	535,613	576,453
SHAW COLLEGE AT DETROIT	1,548	2,135	1,777	449	1,165	0	0
U DC GA AVE & HARV ST CAM	-	-	-	-	0	46	0
TOTAL 1ST 102 INSTITUTIONS	423,870	413,224	493,767	371,601	570,825	535,659	576,453

1/ INSTITUTIONS HAVING NO CURRENT YEAR OBLIGATIONS ARE LISTED IN ALPHABETICAL ORDER.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 9 — FEDERAL OBLIGATIONS TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED, BY TYPE OF ACTIVITY: FISCAL YEAR 1986

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY TOTAL FEDERAL OBLIGATIONS)	TOTAL, ALL ACTIVITIES	ACADEMIC SCIENCE/ENGINEERING							NON-SCIENCE/ ENGINEERING
		TOTAL ACADEMIC SCIENCE/ ENGINEERING	RESEARCH AND DEVELOPMENT	R&D PLANT 1/	FACILITIES FOR INSTRUCTION IN SCIENCE/ ENG.	FELLOWSHIPS, TRAINEESHIPS, AND TRAINING GRANTS	GENERAL SUPPORT SCIENCE/ ENGINEERING	OTHER SCIENCE/ ENGINEERING	
TOTAL, ALL INSTITUTIONS	576,453	114,107	57,042	15,257	109	7,778	14,660	19,261	462,346
1 HOWARD UNIVERSITY	169,084	14,200	9,497	1,799	0	849	1,957	98	154,884
2 JACKSON STATE UNIVERSITY	16,451	2,344	1,279	0	0	309	756	0	14,107
3 SOUTHERN U & A&M COLLEGE	14,850	3,599	1,805	413	0	169	474	738	11,251
4 TUSKEGEE INSTITUTE	14,281	6,789	3,021	1,331	0	486	894	1,057	7,492
5 VIRGINIA STATE UNIVERSITY	12,084	3,557	1,863	492	0	157	40	1,005	8,527
6 GRAMBLING STATE UNIV	12,073	234	124	0	19	91	0	0	11,839
7 TENNESSEE STATE UNIV	11,982	4,682	2,307	494	0	174	520	1,187	7,300
8 PRAIRIE VIEW A & M UNIV	11,713	5,651	2,308	1,331	0	211	164	1,637	6,062
9 NC AG & TECH STATE UNIV	11,396	6,328	3,620	761	32	139	167	1,609	5,068
10 FLORIDA A & M UNIVERSITY	11,376	4,953	2,368	226	0	542	816	1,001	6,423
TOTAL 1ST 10 INSTITUTIONS	285,290	52,337	28,192	6,847	51	3,127	5,788	8,332	232,953
11 ALABAMA A & M UNIVERSITY	9,407	4,838	2,660	761	0	233	0	1,184	4,569
12 SOUTH CAROLINA ST COLLEGE	9,055	2,379	1,112	237	0	110	135	785	6,676
13 ATLANTA UNIVERSITY	8,791	7,865	3,283	4,330	0	252	0	0	926
14 MEHARRY MEDICAL COLLEGE	8,779	3,999	3,024	0	0	142	774	59	4,780
15 ALCORN STATE UNIVERSITY	7,755	2,715	1,348	359	0	103	0	905	5,040
16 TEXAS SOUTHERN UNIV	7,440	1,921	1,415	0	0	80	426	0	5,519
17 NORFOLK STATE UNIVERSITY	7,254	279	82	0	0	0	164	33	6,975
18 UNIV OF ARK PINE BLUFF	7,137	2,887	1,157	422	0	163	357	788	4,250
19 HAMPTON INSTITUTE	6,844	2,007	1,326	0	0	540	0	141	4,837
20 FORT VALLEY STATE COLLEGE	6,822	3,553	1,753	665	0	103	0	1,032	3,269
TOTAL 1ST 20 INSTITUTIONS	364,574	84,780	45,352	13,621	51	4,853	7,644	13,259	279,794
21 UNIVERSITY OF D C	6,621	2,197	749	0	0	274	276	898	4,424
22 ALABAMA STATE UNIVERSITY	6,561	398	45	0	0	135	218	0	6,163
23 KENTUCKY STATE UNIVERSITY	5,843	3,371	1,638	272	0	103	80	1,278	2,472
24 NORTH CAROLINA CNTRL UNIV	5,706	491	0	0	0	187	304	0	5,215
25 LINCOLN UNIVERSITY (MO)	5,389	3,514	1,452	519	0	103	192	1,248	1,875
26 MISS VALLEY STATE UNIV	5,302	53	0	0	0	12	41	0	5,249
27 MORGAN STATE UNIVERSITY	5,251	477	274	0	0	147	0	56	4,774
28 BETHUNE COOKMAN COLLEGE	5,017	482	0	0	14	107	361	0	4,535
29 EDWARD WATERS COLLEGE	4,935	0	0	0	0	0	0	0	4,935
30 XAVIER UNIVERSITY OF LA	4,847	923	90	0	0	246	587	0	3,924
TOTAL 1ST 30 INSTITUTIONS	420,046	96,686	49,600	14,412	65	6,167	9,703	16,739	323,360
31 CENTRAL STATE UNIVERSITY	4,773	291	0	0	0	115	126	50	4,482
32 LANGSTON UNIVERSITY	4,645	2,228	1,073	291	0	103	0	761	2,417
33 FAYETTEVILLE STATE UNIV	4,478	361	0	0	0	0	361	0	4,117
34 CLARK COLLEGE	4,477	267	80	0	0	0	187	0	4,210
35 ST AUGUSTINES COLLEGE	4,286	0	0	0	0	0	0	0	4,286
36 BENEDICT COLLEGE	4,207	618	151	0	0	90	377	0	3,589
37 WILBERFORCE UNIVERSITY	4,176	0	0	0	0	0	0	0	4,176
38 WINSTON-SALEM STATE UNIV	4,002	616	112	0	0	0	504	0	3,386
39 U OF MD EASTERN SHORE	3,945	1,715	776	221	0	103	0	615	2,230
40 FLORIDA MEMORIAL COLLEGE	3,921	0	0	0	0	0	0	0	3,921
TOTAL 1ST 40 INSTITUTIONS	462,956	102,782	51,792	14,924	65	6,578	11,258	18,165	360,174
41 SHAW UNIVERSITY	3,814	147	85	0	0	0	62	0	3,667
42 COPPIN STATE COLLEGE	3,794	161	0	0	0	0	161	0	3,633
43 MORRIS BROWN COLLEGE	3,551	14	0	0	0	14	0	0	3,537
44 ALBANY STATE COLLEGE	3,472	151	0	0	0	0	151	0	3,321
45 LINCOLN UNIVERSITY (PA)	3,377	590	360	0	0	103	127	0	2,787
46 RUST COLLEGE	3,377	143	53	0	0	0	90	0	3,234
47 SAVANNAH STATE COLLEGE	3,348	451	0	0	0	115	317	19	2,897
48 FISK UNIVERSITY	3,329	1,430	934	0	0	203	293	0	1,899
49 DILLARD UNIVERSITY	3,312	290	27	0	0	0	263	0	3,022
50 ELIZABETH CITY STATE UNIV	3,157	0	0	0	0	0	0	0	3,157
TOTAL 1ST 50 INSTITUTIONS	497,487	106,159	53,251	14,924	65	7,013	12,722	18,184	391,328

SEE FOOTNOTES AT END OF TABLE.

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Table 9 — FEDERAL OBLIGATIONS TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED, BY TYPE OF ACTIVITY: FISCAL YEAR 1986

CONTINUED

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY TOTAL FEDERAL OBLIGATIONS)	TOTAL, ALL ACTIVITIES	ACADEMIC SCIENCE/ENGINEERING							NON-SCIENCE/ENGINEERING
		TOTAL ACADEMIC SCIENCE/ENGINEERING	RESEARCH AND DEVELOPMENT	R&D PLANT 1/	FACILITIES FOR INSTRUCTION IN SCIENCE/ENG.	FELLOWSHIPS, TRAINEESHIPS, AND TRAINING GRANTS	GENERAL SUPPORT SCIENCE/ENGINEERING	OTHER SCIENCE/ENGINEERING	
51 TOUGALOO COLLEGE	3,082	490	96	0	0	132	262	0	2,592
52 DELAWARE STATE COLLEGE	3,065	1,369	441	333	0	103	198	294	1,696
53 JOHNSON C SMITH UNIV	3,055	274	0	0	0	106	168	0	2,781
54 LE MOYNE-OWEN COLLEGE	3,031	6	0	0	0	0	6	0	3,025
55 VIRGINIA UNION UNIVERSITY	2,738	0	0	0	0	0	0	0	2,738
56 MOREHOUSE COLLEGE	2,670	392	392	0	0	0	0	0	2,278
57 SPELMAN COLLEGE	2,597	298	33	0	22	0	243	0	2,299
58 MOREHOUSE SCHOOL OF MED	2,562	1,789	1,628	0	0	0	161	0	773
59 VOORHEES COLLEGE	2,443	85	85	0	0	0	0	0	2,358
60 STILLMAN COLLEGE	2,422	96	0	0	0	96	0	0	2,326
TOTAL 1ST 60 INSTITUTIONS	525,152	110,958	55,926	15,257	87	7,450	13,760	18,478	414,194
61 OAKWOOD COLLEGE	2,352	75	75	0	0	0	0	0	2,277
62 TALLADEGA COLLEGE	2,288	381	0	0	0	156	225	0	1,907
63 PAINE COLLEGE	2,286	62	0	0	0	0	62	0	2,224
64 CLAFLIN COLLEGE	2,266	48	48	0	0	0	0	0	2,218
65 LANSON STATE CMTY COLLEGE	2,231	0	0	0	0	0	0	0	2,231
66 S D BISHOP ST JR COLLEGE	2,168	0	0	0	0	0	0	0	2,168
67 MORRIS COLLEGE	2,104	0	0	0	0	0	0	0	2,104
68 CHEYNEY UNIV OF PENN	2,070	0	0	0	0	0	0	0	2,070
69 LANE COLLEGE	2,016	20	0	0	0	20	0	0	1,996
70 COL OF THE VIRGIN ISLANDS	2,009	1,927	916	0	22	47	159	783	82
TOTAL 1ST 70 INSTITUTIONS	546,942	113,471	56,965	15,257	109	7,673	14,206	19,261	433,471
71 BOWIE STATE COLLEGE	1,860	127	70	0	0	57	0	0	1,733
72 BENNETT COLLEGE (NC)	1,801	83	0	0	0	14	69	0	1,718
73 BISHOP COLLEGE	1,749	118	0	0	0	0	118	0	1,631
74 MILES COLLEGE	1,747	0	0	0	0	0	0	0	1,747
75 HINDS J CO DIST UTICA CAM	1,735	0	0	0	0	0	0	0	1,735
76 ST PAUL'S COL (VA)	1,659	0	0	0	0	0	0	0	1,659
77 JARVIS CHRISTIAN COLLEGE	1,500	0	0	0	0	0	0	0	1,500
78 TEXAS COLLEGE	1,481	0	0	0	0	0	0	0	1,481
79 MARY HOLMES COLLEGE	1,457	0	0	0	0	0	0	0	1,457
80 LIVINGSTONE COLLEGE	1,417	0	0	0	0	0	0	0	1,417
TOTAL 1ST 80 INSTITUTIONS	563,348	113,799	57,035	15,257	109	7,744	14,393	19,261	449,549
81 PAUL QUINN COLLEGE	1,404	4	0	0	0	4	0	0	1,400
82 PHILANDER SMITH COLLEGE	1,374	0	0	0	0	0	0	0	1,374
83 WILEY COLLEGE	1,325	0	0	0	0	0	0	0	1,325
84 KNOXVILLE COLLEGE	1,308	7	7	0	0	0	0	0	1,301
85 BARBER-SCOTIA COLLEGE	1,266	0	0	0	0	0	0	0	1,266
86 HUSTON-TILLOTSON COLLEGE	1,022	0	0	0	0	0	0	0	1,022
87 CONCORDIA COLLEGE	994	0	0	0	0	0	0	0	994
88 SELMA UNIVERSITY	953	267	0	0	0	0	267	0	686
89 MORRISTOWN COLLEGE	757	0	0	0	0	0	0	0	757
90 SOUTHWESTN CHRISTIAN COL	727	0	0	0	0	0	0	0	727
TOTAL 1ST 90 INSTITUTIONS	574,478	114,077	57,042	15,257	109	7,748	14,660	19,261	460,401
91 ALLEN UNIVERSITY	674	0	0	0	0	0	0	0	674
92 ARKANSAS BAPTIST COLLEGE	374	0	0	0	0	0	0	0	374
93 SHORTER COLLEGE	352	0	0	0	0	0	0	0	352
94 COAHOMA JUNIOR COLLEGE	314	30	0	0	0	30	0	0	284
95 PRENTISS NORM & IND INST	182	0	0	0	0	0	0	0	182
96 INTERDENOMINA THEOL CTR	68	0	0	0	0	0	0	0	68
97 CLINTON JUNIOR COLLEGE	11	0	0	0	0	0	0	0	11
TOTAL 1ST 97 INSTITUTIONS	576,453	114,107	57,042	15,257	109	7,778	14,660	19,261	462,346

1/ SEE TECHNICAL NOTES, SCOPE OF SURVEY.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 10 — FEDERAL OBLIGATIONS TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED, BY AGENCY: FISCAL YEAR 1986

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED)	TOTAL	USDA	COM	DOD	ED	DOE	EPA	HHS	INT	NASA	NSF	OTHER 1/
TOTAL, ALL INSTITUTIONS	576,453	51,880	378	4,038	454,875	7,945	673	43,868	411	7,191	4,248	946
1 HOWARD UNIVERSITY	169,084	0	59	568	157,168	406	107	8,802	0	1,208	466	300
2 JACKSON STATE UNIVERSITY	16,451	0	0	65	14,049	1,142	0	1,194	0	0	1	0
3 SOUTHERN U & A&M COLLEGE	14,850	2,285	0	0	11,251	173	0	575	0	272	294	0
4 TUSKEGEE INSTITUTE	14,281	3,675	100	679	6,410	179	0	2,460	0	497	281	0
5 VIRGINIA STATE UNIVERSITY	12,084	3,015	0	0	8,453	247	3	166	0	200	0	0
6 GRAMBLING STATE UNIV	12,073	0	0	0	11,839	34	4	137	40	0	19	0
7 TENNESSEE STATE UNIV	11,982	3,304	0	0	7,300	0	6	1,212	0	160	0	0
8 PRAIRIE VIEW A & M UNIV	11,713	5,006	0	164	5,824	0	2	459	0	258	0	0
9 NC AG & TECH STATE UNIV	11,396	4,390	0	268	5,053	222	3	330	0	800	330	0
10 FLORIDA A & M UNIVERSITY	11,376	1,916	0	445	6,164	120	0	2,237	0	427	27	40
TOTAL 1ST 10 INSTITUTIONS	285,290	23,591	159	2,189	233,511	2,523	125	17,572	40	3,822	1,418	340
11 ALABAMA A & M UNIVERSITY	9,407	3,113	0	311	4,569	118	4	126	0	760	339	67
12 SOUTH CAROLINA ST COLLEGE	9,055	2,236	0	0	6,676	0	8	135	0	0	0	0
13 ATLANTA UNIVERSITY	8,791	9	0	825	943	4,506	19	1,540	0	323	527	99
14 MEHARRY MEDICAL COLLEGE	8,779	0	0	0	221	71	0	8,007	0	0	480	0
15 ALCORN STATE UNIVERSITY	7,755	2,715	0	0	5,040	0	0	0	0	0	0	0
16 TEXAS SOUTHERN UNIV	7,440	0	0	0	5,325	259	60	1,611	0	95	10	80
17 NORFOLK STATE UNIVERSITY	7,254	0	0	0	6,768	0	0	406	0	33	47	0
18 UNIV OF ARK PINE BLUFF	7,137	2,421	0	0	4,250	0	5	417	44	0	0	0
19 HAMPTON INSTITUTE	6,844	20	100	433	4,112	70	17	877	20	768	427	0
20 FORT VALLEY STATE COLLEGE	6,822	3,188	0	0	3,269	0	0	365	0	0	0	0
TOTAL 1ST 20 INSTITUTIONS	364,574	37,293	259	3,758	274,684	7,547	238	31,056	104	5,801	3,248	586
21 UNIVERSITY OF D C	6,621	1,468	0	111	4,311	0	2	514	114	101	0	0
22 ALABAMA STATE UNIVERSITY	6,561	0	0	0	6,163	0	0	353	0	0	45	0
23 KENTUCKY STATE UNIVERSITY	5,843	3,216	0	0	2,522	0	25	80	0	0	0	0
24 NORTH CAROLINA CNTRL UNIV	5,706	0	0	0	5,215	0	0	491	0	0	0	0
25 LINCOLN UNIVERSITY (MO)	5,389	3,317	0	0	1,875	0	0	192	5	0	0	0
26 MISS VALLEY STATE UNIV	5,302	0	0	0	5,249	0	12	41	0	0	0	0
27 MORGAN STATE UNIVERSITY	5,251	0	0	0	4,774	0	0	105	0	337	0	35
28 BETHUNE COOKMAN COLLEGE	5,017	0	0	0	4,535	0	0	468	0	0	14	0
29 EDWARD WATERS COLLEGE	4,935	0	0	0	4,935	0	0	0	0	0	0	0
30 XAVIER UNIVERSITY OF LA	4,847	0	0	50	3,331	0	65	1,401	0	0	0	0
TOTAL 1ST 30 INSTITUTIONS	420,046	45,294	259	3,919	317,594	7,547	342	34,701	223	6,239	3,307	621
31 CENTRAL STATE UNIVERSITY	4,773	0	0	0	4,482	0	0	241	0	50	0	0
32 LANGSTON UNIVERSITY	4,645	2,216	0	0	2,417	0	0	0	12	0	0	0
33 FAYETTEVILLE STATE UNIV	4,478	0	0	0	4,117	0	0	361	0	0	0	0
34 CLARK COLLEGE	4,477	0	0	0	4,106	80	0	291	0	0	0	0
35 ST AUGUSTINES COLLEGE	4,286	0	0	0	4,252	0	0	34	0	0	0	0
36 BENEDICT COLLEGE	4,207	0	100	0	3,589	0	9	509	0	0	0	0
37 WILBERFORCE UNIVERSITY	4,176	0	0	0	4,176	0	0	0	0	0	0	0
38 WINSTON-SALEM STATE UNIV	4,002	0	0	0	3,253	54	0	695	0	0	0	0
39 U OF MD EASTERN SHORE	3,945	1,630	0	0	2,230	0	0	0	0	85	0	0
40 FLORIDA MEMORIAL COLLEGE	3,921	0	0	0	3,921	0	0	0	0	0	0	0
TOTAL 1ST 40 INSTITUTIONS	462,956	49,140	359	3,919	354,137	7,681	351	36,832	235	6,374	3,307	621
41 SHAW UNIVERSITY	3,814	0	0	0	3,567	0	85	162	0	0	0	0
42 COPPIN STATE COLLEGE	3,794	0	0	0	3,633	0	0	161	0	0	0	0
43 MORRIS BROWN COLLEGE	3,551	0	0	0	3,537	14	0	0	0	0	0	0
44 ALBANY STATE COLLEGE	3,472	0	0	0	3,321	0	0	151	0	0	0	0
45 LINCOLN UNIVERSITY (PA)	3,377	0	0	119	2,787	0	5	225	0	241	0	0
46 RUST COLLEGE	3,377	0	0	0	3,234	0	0	143	0	0	0	0
47 SAVANNAH STATE COLLEGE	3,348	0	19	0	2,897	0	0	432	0	0	0	0
48 FISK UNIVERSITY	3,329	0	0	0	1,857	82	0	471	0	449	300	170
49 DILLARD UNIVERSITY	3,312	27	0	0	2,952	0	0	263	0	0	0	70
50 ELIZABETH CITY STATE UNIV	3,157	0	0	0	3,157	0	0	0	0	0	0	0
TOTAL 1ST 50 INSTITUTIONS	497,487	49,167	378	4,038	385,079	7,777	441	38,840	235	7,064	3,607	861

SEE FOOTNOTES AT END OF TABLE.

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Table 10 — FEDERAL OBLIGATIONS TO HISTORICALLY BLACK COLLEGES, RANKED IN DESCENDING ORDER OF TOTAL AMOUNT RECEIVED, BY AGENCY: FISCAL YEAR 1986

CONTINUED

(DOLLARS IN THOUSANDS)

INSTITUTION (RANKED BY AMOUNT RECEIVED)	TOTAL	USDA	COM	DOD	ED	DOE	EPA	HHS	INT	NASA	NSF	OTHER 1/
51 TOUGALOO COLLEGE	3,082	0	0	0	2,592	0	0	394	0	0	96	0
52 DELAWARE STATE COLLEGE	3,065	1,174	0	0	1,693	0	0	198	0	0	0	0
53 JOHNSON C SMITH UNIV	3,055	0	0	0	2,781	0	0	274	0	0	0	0
54 LE MOYNE-OWEN COLLEGE	3,031	0	0	0	3,025	0	0	6	0	0	0	0
55 VIRGINIA UNION UNIVERSITY	2,738	0	0	0	2,738	0	0	0	0	0	0	0
56 MOREHOUSE COLLEGE	2,670	0	0	0	2,278	69	0	0	62	0	261	0
57 SPELMAN COLLEGE	2,597	0	0	0	2,192	0	0	350	0	0	55	0
58 MOREHOUSE SCHOOL OF MED	2,562	0	0	0	0	0	208	2,222	0	0	132	0
59 VOORHEES COLLEGE	2,443	0	0	0	2,358	0	0	0	0	0	0	85
60 STILLMAN COLLEGE	2,422	0	0	0	2,326	0	0	96	0	0	0	0
TOTAL 1ST 60 INSTITUTIONS	525,152	50,341	378	4,038	407,062	7,846	649	42,380	297	7,064	4,151	946
61 OAKWOOD COLLEGE	2,352	0	0	0	2,277	0	0	75	0	0	0	0
62 TALLADEGA COLLEGE	2,288	0	0	0	1,907	0	0	381	0	0	0	0
63 PAINE COLLEGE	2,286	0	0	0	2,224	0	0	62	0	0	0	0
64 CLAFLIN COLLEGE	2,266	0	0	0	2,218	48	0	0	0	0	0	0
65 LAWSON STATE CMTY COLLEGE	2,231	0	0	0	2,231	0	0	0	0	0	0	0
66 S D BISHOP ST JR COLLEGE	2,168	0	0	0	1,882	0	0	286	0	0	0	0
67 MORRIS COLLEGE	2,104	0	0	0	2,104	0	0	0	0	0	0	0
68 CHEYNEY UNIV OF PENN	2,070	0	0	0	2,070	0	0	0	0	0	0	0
69 LANE COLLEGE	2,016	0	0	0	1,996	0	20	0	0	0	0	0
70 COL OF THE VIRGIN ISLANDS	2,009	1,539	0	0	82	0	0	177	114	0	97	0
TOTAL 1ST 70 INSTITUTIONS	546,942	51,880	378	4,038	426,053	7,894	669	43,361	411	7,064	4,248	946
71 BOWIE STATE COLLEGE	1,860	0	0	0	1,733	0	0	0	0	127	0	0
72 BENNETT COLLEGE (NC)	1,801	0	0	0	1,718	14	0	69	0	0	0	0
73 BISHOP COLLEGE	1,749	0	0	0	1,631	0	0	118	0	0	0	0
74 MILES COLLEGE	1,747	0	0	0	1,694	0	0	53	0	0	0	0
75 HINDS J CO DIST UTICA CAM	1,735	0	0	0	1,735	0	0	0	0	0	0	0
76 ST PAUL'S COL (VA)	1,659	0	0	0	1,659	0	0	0	0	0	0	0
77 JARVIS CHRISTIAN COLLEGE	1,500	0	0	0	1,500	0	0	0	0	0	0	0
78 TEXAS COLLEGE	1,481	0	0	0	1,481	0	0	0	0	0	0	0
79 MARY HOLMES COLLEGE	1,457	0	0	0	1,457	0	0	0	0	0	0	0
80 LIVINGSTONE COLLEGE	1,417	0	0	0	1,417	0	0	0	0	0	0	0
TOTAL 1ST 80 INSTITUTIONS	563,348	51,880	378	4,038	442,078	7,908	669	43,601	411	7,191	4,248	946
81 PAUL QUINN COLLEGE	1,404	0	0	0	1,400	0	4	0	0	0	0	0
82 PHILANDER SMITH COLLEGE	1,374	0	0	0	1,374	0	0	0	0	0	0	0
83 WILEY COLLEGE	1,325	0	0	0	1,325	0	0	0	0	0	0	0
84 KNOXVILLE COLLEGE	1,308	0	0	0	1,301	7	0	0	0	0	0	0
85 BARBER-SCOTIA COLLEGE	1,266	0	0	0	1,266	0	0	0	0	0	0	0
86 HUSTON-TILLOTSON COLLEGE	1,022	0	0	0	1,022	0	0	0	0	0	0	0
87 CONCORDIA COLLEGE	994	0	0	0	994	0	0	0	0	0	0	0
88 SELMA UNIVERSITY	953	0	0	0	686	0	0	267	0	0	0	0
89 MORRISTOWN COLLEGE	757	0	0	0	757	0	0	0	0	0	0	0
90 SOUTHWESTN CHRISTIAN COL	727	0	0	0	727	0	0	0	0	0	0	0
TOTAL 1ST 90 INSTITUTIONS	574,478	51,880	378	4,038	452,930	7,915	673	43,868	411	7,191	4,248	946
91 ALLEN UNIVERSITY	674	0	0	0	674	0	0	0	0	0	0	0
92 ARKANSAS BAPTIST COLLEGE	374	0	0	0	374	0	0	0	0	0	0	0
93 SHORTER COLLEGE	352	0	0	0	352	0	0	0	0	0	0	0
94 COAHOMA JUNIOR COLLEGE	314	0	0	0	284	30	0	0	0	0	0	0
95 PRENTISS NORM & IND INST	182	0	0	0	182	0	0	0	0	0	0	0
96 INTERDENOMINA THEOL CTR	68	0	0	0	68	0	0	0	0	0	0	0
97 CLINTON JUNIOR COLLEGE	11	0	0	0	11	0	0	0	0	0	0	0
TOTAL 1ST 97 INSTITUTIONS	576,453	51,880	378	4,038	454,875	7,945	673	43,868	411	7,191	4,248	946

1/ INCLUDES DOT, AID, HUD, LABOR, AND NRC.

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS

Table 11 — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD, TYPE OF CONTROL, SEX, AND LEVEL OF DEPARTMENT: 1986

FIELD	TOTAL	TYPE OF CONTROL		SEX		LEVEL OF DEPARTMENT	
		PUBLIC	PRIVATE	MEN	WOMEN	DOCTORATE	MASTER'S
TOTAL, ALL FIELDS	3,515	1,928	1,587	2,048	1,467	1,001	2,514
ENGINEERING	374	218	156	315	59	81	293
AEROSPACE	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0
CIVIL	47	15	32	27	20	0	47
ELECTRICAL	61	0	61	50	11	36	25
ENGINEERING SCIENCE	0	0	0	0	0	0	0
INDUSTRIAL	0	0	0	0	0	0	0
MECHANICAL	63	0	63	60	3	45	18
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	203	203	0	178	25	0	203
SCIENCES, TOTAL	3,141	1,710	1,431	1,733	1,408	920	2,221
PHYSICAL SCIENCES	299	152	147	214	85	98	201
ASTRONOMY	0	0	0	0	0	0	0
CHEMISTRY	196	99	97	136	60	77	119
PHYSICS	84	34	50	71	13	21	63
PHYSICAL SCIENCES, N.E.C.	19	19	0	7	12	0	19
ENVIRONMENTAL SCIENCES	19	6	13	10	9	0	19
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0
GEOSCIENCES	19	6	13	10	9	0	19
OCEANOGRAPHY	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0	0	0
MATHEMATICAL SCIENCES	265	146	119	160	105	10	255
COMPUTER SCIENCES	279	247	32	196	83	0	279
LIFE SCIENCES	666	321	345	306	360	192	474
AGRICULTURAL SCIENCES	55	36	19	46	9	0	55
BIOLOGICAL SCIENCES	447	203	244	225	222	187	260
ANATOMY	9	0	9	3	6	0	9
BIOCHEMISTRY	14	0	14	9	5	14	0
BIOLOGY	229	145	84	92	137	53	176
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0
BOTANY	37	20	17	26	11	0	37
CELL BIOLOGY	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0
GENETICS	32	0	32	14	18	32	0
MICROBIOLOGY	14	0	14	6	8	14	0
NUTRITION	34	34	0	25	9	0	34
PATHOLOGY	0	0	0	0	0	0	0
PHARMACOLOGY	17	0	17	8	9	17	0
PHYSIOLOGY	20	0	20	15	5	20	0
ZOOLOGY	22	0	22	16	6	22	0
BIOSCIENCES, N.E.C.	19	4	15	11	8	15	4
HEALTH SCIENCES	164	82	82	35	129	5	159
DENTISTRY	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0
NURSING	38	0	38	1	37	0	38
PHARMACEUTICAL SCIENCES	15	15	0	10	5	0	15
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	83	67	16	2	81	0	83
VETERINARY SCIENCES	23	0	23	20	3	0	23
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	5	0	5	2	3	5	0
PSYCHOLOGY	419	331	88	167	252	82	337
SOCIAL SCIENCES	1,194	507	687	680	514	538	656
AGRICULTURAL ECONOMICS	57	57	0	49	8	0	57
ANTHROPOLOGY	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	147	46	101	114	33	74	73
GEOGRAPHY	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0
LINGUISTICS	129	0	129	43	86	129	0
POLITICAL SCIENCE	389	158	231	250	139	160	229
SOCIOLOGY	179	102	77	77	102	77	102
SOCIOLOGY/ANTHROPOLOGY	60	0	60	27	33	35	25
SOCIAL SCIENCES, N.E.C.	233	144	89	120	113	63	170

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 12 — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD, TYPE OF CONTROL, AND ENROLLMENT STATUS: 1986

FIELD	PUBLIC INSTITUTIONS			PRIVATE INSTITUTIONS		
	TOTAL	FULL TIME	PART TIME	TOTAL	FULL TIME	PART TIME
TOTAL, ALL FIELDS	1,928	1,045	883	1,587	1,153	434
ENGINEERING	218	71	147	156	126	30
AEROSPACE	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0
CIVIL	15	11	4	32	21	11
ELECTRICAL	0	0	0	61	45	16
ENGINEERING SCIENCE	0	0	0	0	0	0
INDUSTRIAL	0	0	0	0	0	0
MECHANICAL	0	0	0	63	60	3
METALLURGICAL/MATERIALS	0	0	0	0	0	0
MINING	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	203	60	143	0	0	0
SCIENCES, TOTAL	1,710	974	736	1,431	1,027	404
PHYSICAL SCIENCES	152	105	47	147	134	13
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	99	74	25	97	95	2
PHYSICS	34	25	9	50	39	11
PHYSICAL SCIENCES, N.E.C.	19	6	13	0	0	0
ENVIRONMENTAL SCIENCES	6	2	4	13	5	8
ATMOSPHERIC SCIENCES	0	0	0	0	0	0
GEOSCIENCES	6	2	4	13	5	8
OCEANOGRAPHY	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0	0
MATHEMATICAL SCIENCES	146	65	81	119	78	41
COMPUTER SCIENCES	247	177	70	32	29	3
LIFE SCIENCES	321	213	108	345	283	62
AGRICULTURAL SCIENCES	36	9	27	19	17	2
BIOLOGICAL SCIENCES	203	143	60	244	205	39
ANATOMY	0	0	0	9	9	0
BIOCHEMISTRY	0	0	0	14	14	0
BIOLOGY	145	88	57	84	61	23
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	20	20	0	17	11	6
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	0	0	0	32	29	3
MICROBIOLOGY	0	0	0	14	14	0
NUTRITION	34	32	2	0	0	0
PATHOLOGY	0	0	0	0	0	0
PHARMACOLOGY	0	0	0	17	16	1
PHYSIOLOGY	0	0	0	20	19	1
ZOOLOGY	0	0	0	22	17	5
BIOSCIENCES, N.E.C.	4	3	1	15	15	0
HEALTH SCIENCES	82	61	21	82	61	21
DENTISTRY	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0
NURSING	0	0	0	38	28	10
PHARMACEUTICAL SCIENCES	15	15	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	67	46	21	16	8	8
VETERINARY SCIENCES	0	0	0	23	20	3
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	0	0	0	5	5	0
PSYCHOLOGY	331	127	204	88	56	32
SOCIAL SCIENCES	507	285	222	687	442	245
AGRICULTURAL ECONOMICS	57	38	19	0	0	0
ANTHROPOLOGY	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	46	28	18	101	63	38
GEOGRAPHY	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	0	0	0	129	72	57
POLITICAL SCIENCE	158	65	93	231	184	47
SOCIOLOGY	102	68	34	77	23	54
SOCIOLOGY/ANTHROPOLOGY	0	0	0	60	27	33
SOCIAL SCIENCES, N.E.C.	144	86	58	89	73	16

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 13 — SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD, CITIZENSHIP, AND RACIAL/ETHNIC BACKGROUND: 1986

FIELD	TOTAL	U.S. CITIZENS						FOREIGN
		BLACK NON-HISPANIC	AMERICAN INDIAN/ ALASKAN NATIVE	ASIAN/ PACIFIC ISLANDER	HISPANIC	WHITE NON-HISPANIC	OTHER OR UNKNOWN	
TOTAL, ALL FIELDS	3,515	1,779	2	76	19	344	93	1,202
ENGINEERING	374	88	0	8	1	29	39	209
AEROSPACE	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0
CIVIL	47	3	0	1	1	9	0	33
ELECTRICAL	61	17	0	3	0	0	0	41
ENGINEERING SCIENCE	0	0	0	0	0	0	0	0
INDUSTRIAL	0	0	0	0	0	0	0	0
MECHANICAL	63	11	0	0	0	2	1	49
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	203	57	0	4	0	18	38	86
SCIENCES, TOTAL	3,141	1,691	2	68	18	315	54	993
PHYSICAL SCIENCES	299	159	1	4	1	7	10	117
ASTRONOMY	0	0	0	0	0	0	0	0
CHEMISTRY	196	103	1	4	1	4	9	74
PHYSICS	84	37	0	0	0	3	1	43
PHYSICAL SCIENCES, N.E.C.	19	19	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES	19	3	0	0	0	7	0	9
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0
GEOSCIENCES	19	3	0	0	0	7	0	9
OCEANOGRAPHY	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0	0	0	0
MATHEMATICAL SCIENCES	265	134	0	10	0	12	5	104
COMPUTER SCIENCES	279	82	0	32	0	34	3	128
LIFE SCIENCES	666	390	1	13	15	61	6	180
AGRICULTURAL SCIENCES	55	22	0	1	0	6	0	26
BIOLOGICAL SCIENCES	447	272	1	9	5	14	5	141
ANATOMY	9	7	0	0	0	1	0	1
BIOCHEMISTRY	14	6	0	0	1	0	0	7
BIOLOGY	229	174	0	4	2	9	2	38
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0
BOTANY	37	8	0	0	0	2	0	27
CELL BIOLOGY	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0
GENETICS	32	17	0	1	1	0	0	13
MICROBIOLOGY	14	9	0	0	0	0	0	5
NUTRITION	34	9	0	3	0	0	3	19
PATHOLOGY	0	0	0	0	0	0	0	0
PHARMACOLOGY	17	9	0	1	0	0	0	7
PHYSIOLOGY	20	10	0	0	0	0	0	10
ZOOLOGY	22	11	0	0	0	1	0	10
BIOSCIENCES, N.E.C.	19	12	1	0	1	1	0	4
HEALTH SCIENCES	164	96	0	3	10	41	1	13
DENTISTRY	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0
NURSING	38	22	0	0	0	15	1	0
PHARMACEUTICAL SCIENCES	15	0	0	0	0	7	0	8
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	83	57	0	0	9	17	0	0
VETERINARY SCIENCES	23	15	0	3	1	1	0	3
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	5	2	0	0	0	1	0	2
PSYCHOLOGY	419	232	0	1	1	169	5	11
SOCIAL SCIENCES	1,194	691	0	8	1	25	25	444
AGRICULTURAL ECONOMICS	57	10	0	0	0	2	0	45
ANTHROPOLOGY	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	147	45	0	0	0	0	7	95
GEOGRAPHY	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0
LINGUISTICS	129	85	0	2	1	2	0	39
POLITICAL SCIENCE	389	232	0	1	0	1	18	137
SOCIOLOGY	179	116	0	4	0	4	0	55
SOCIOLOGY/ANTHROPOLOGY	60	48	0	0	0	0	0	12
SOCIAL SCIENCES, N.E.C.	233	155	0	1	0	16	0	61

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 14 - FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD, LEVEL OF STUDY, CITIZENSHIP, SEX, AND TYPE OF CONTROL: 1986

FIELD	TOTAL	LEVEL OF STUDY		CITIZENSHIP		SEX		TYPE OF CONTROL	
		FIRST YEAR	BEYOND FIRST YEAR	U.S.	FOREIGN	MEN	WOMEN	PUBLIC	PRIVATE
TOTAL, ALL FIELDS	2,198	656	1,542	1,309	889	1,318	880	1,045	1,153
ENGINEERING	197	61	136	74	123	152	45	71	126
AEROSPACE	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0
CIVIL	32	8	24	8	24	17	15	11	21
ELECTRICAL	45	17	28	16	29	35	10	0	45
ENGINEERING SCIENCE	0	0	0	0	0	0	0	0	0
INDUSTRIAL	0	0	0	0	0	0	0	0	0
MECHANICAL	60	19	41	11	49	57	3	0	60
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	60	17	43	39	21	43	17	60	0
SCIENCES, TOTAL	2,001	595	1,406	1,235	766	1,166	835	974	1,027
PHYSICAL SCIENCES	239	67	172	135	104	177	62	105	134
ASTRONOMY	0	0	0	0	0	0	0	0	0
CHEMISTRY	169	39	130	103	66	117	52	74	95
PHYSICS	64	27	37	26	38	57	7	25	39
PHYSICAL SCIENCES, N.E.C.	6	1	5	6	0	3	3	6	0
ENVIRONMENTAL SCIENCES	7	3	4	4	3	4	3	2	5
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0
GEOSCIENCES	7	3	4	4	3	4	3	2	5
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0	0	0	0	0
MATHEMATICAL SCIENCES	143	57	86	84	59	100	43	65	78
COMPUTER SCIENCES	206	62	144	98	108	149	57	177	29
LIFE SCIENCES	496	134	362	346	150	240	256	213	283
AGRICULTURAL SCIENCES	26	6	20	5	21	23	3	9	17
BIOLOGICAL SCIENCES	348	94	254	232	116	185	163	143	205
ANATOMY	9	3	6	8	1	3	6	0	9
BIOCHEMISTRY	14	6	8	7	7	9	5	0	14
BIOLOGY	149	47	102	126	23	64	85	88	61
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0
BOTANY	31	13	18	8	23	23	8	20	11
CELL BIOLOGY	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0
GENETICS	29	8	21	19	10	12	17	0	29
MICROBIOLOGY	14	0	14	9	5	6	8	0	14
NUTRITION	32	8	24	13	19	24	8	32	0
PATHOLOGY	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	16	2	14	9	7	8	8	0	16
PHYSIOLOGY	19	3	16	10	9	14	5	0	19
ZOOLOGY	17	3	14	9	8	12	5	0	17
BIOSCIENCES, N.E.C.	18	1	17	14	4	10	8	3	15
HEALTH SCIENCES	122	34	88	109	13	32	90	61	61
DENTISTRY	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0
NURSING	28	7	21	28	0	0	28	0	28
PHARMACEUTICAL SCIENCES	15	6	9	7	8	10	5	15	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	54	15	39	54	0	2	52	46	8
VETERINARY SCIENCES	20	1	19	17	3	18	2	0	20
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	5	5	0	3	2	2	3	0	5
PSYCHOLOGY	183	60	123	176	7	60	123	127	56
SOCIAL SCIENCES	727	212	515	392	335	436	291	285	442
AGRICULTURAL ECONOMICS	38	20	18	10	28	34	4	38	0
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	91	22	69	26	65	71	20	28	63
GEOGRAPHY	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0
LINGUISTICS	72	12	60	50	22	24	48	0	72
POLITICAL SCIENCE	249	67	182	125	124	177	72	65	184
SOCIOLOGY	91	23	68	57	34	47	44	68	23
SOCIOLOGY/ANTHROPOLOGY	27	4	23	20	7	10	17	0	27
SOCIAL SCIENCES, N.E.C.	159	64	95	104	55	73	86	86	73

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 15 — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY SEX, SOURCE OF MAJOR SUPPORT, AND FIELD: 1986

SEX AND SOURCE OF MAJOR SUPPORT	ENGINEERING	PHYSICAL SCIENCES	ENVIRON-MENTAL SCIENCES	MATHE-MATICAL SCIENCES	COMPUTER SCIENCES	LIFE SCIENCES	PSYCHOLOGY	SOCIAL SCIENCES
TOTAL:								
TOTAL, ALL SOURCES	197	239	7	143	206	496	183	727
FEDERAL, TOTAL	37	121	0	27	16	254	13	107
DEPT OF DEFENSE	0	25	0	26	0	0	3	0
DEPT OF HHS, TOTAL	4	29	0	0	0	145	6	26
NIH	0	27	0	0	0	117	6	4
OTHER HHS	4	2	0	0	0	28	0	22
NSF	1	17	0	0	0	11	4	0
USDA	0	3	0	0	0	21	0	22
ALL OTHER FEDERAL	32	47	0	1	16	77	0	59
INSTITUTIONAL SUPPORT	100	75	2	35	23	106	18	122
OTHER OUTSIDE SUPPORT, TOTAL	12	15	3	1	21	37	30	54
ALL OTHER U.S.	9	13	3	0	21	29	30	45
FOREIGN	3	2	0	1	0	8	0	9
SELF-SUPPORT	48	28	2	80	146	99	122	444
MEN:								
TOTAL, ALL SOURCES	152	177	4	100	149	240	60	436
FEDERAL, TOTAL	34	91	0	15	12	118	7	40
DEPT OF DEFENSE	0	19	0	14	0	0	3	0
DEPT OF HHS, TOTAL	4	22	0	0	0	55	3	3
NIH	0	20	0	0	0	51	3	1
OTHER HHS	4	2	0	0	0	4	0	2
NSF	1	11	0	0	0	5	1	0
USDA	0	3	0	0	0	18	0	18
ALL OTHER FEDERAL	29	36	0	1	12	40	0	19
INSTITUTIONAL SUPPORT	73	55	1	21	19	56	3	52
OTHER OUTSIDE SUPPORT, TOTAL	8	12	1	1	8	29	6	46
ALL OTHER U.S.	5	10	1	0	8	23	6	38
FOREIGN	3	2	0	1	0	6	0	8
SELF-SUPPORT	37	19	2	63	110	37	44	298
WOMEN:								
TOTAL, ALL SOURCES	45	62	3	43	57	256	123	291
FEDERAL, TOTAL	3	30	0	12	4	136	6	67
DEPT OF DEFENSE	0	6	0	12	0	0	0	0
DEPT OF HHS, TOTAL	0	7	0	0	0	90	3	23
NIH	0	7	0	0	0	66	3	3
OTHER HHS	0	0	0	0	0	24	0	20
NSF	0	6	0	0	0	6	3	0
USDA	0	0	0	0	0	3	0	4
ALL OTHER FEDERAL	3	11	0	0	4	37	0	40
INSTITUTIONAL SUPPORT	27	20	1	14	4	50	15	70
OTHER OUTSIDE SUPPORT, TOTAL	4	3	2	0	13	8	24	8
ALL OTHER U.S.	4	3	2	0	13	6	24	7
FOREIGN	0	0	0	0	0	2	0	1
SELF-SUPPORT	11	9	0	17	36	62	78	146

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 16 — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD AND TYPE OF MAJOR SUPPORT: 1986

FIELD	TOTAL	FELLOWSHIPS	TRAINEESHIPS	RESEARCH ASSISTANT-SHIPS	TEACHING ASSISTANT-SHIPS	OTHER TYPES OF SUPPORT
TOTAL, ALL FIELDS	2,198	164	178	351	308	1,197
ENGINEERING	197	20	25	40	57	55
AEROSPACE	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0
CIVIL	32	2	6	0	5	19
ELECTRICAL	45	9	7	12	12	5
ENGINEERING SCIENCE	0	0	0	0	0	0
INDUSTRIAL	0	0	0	0	0	0
MECHANICAL	60	1	12	14	12	21
METALLURGICAL/MATERIALS	0	0	0	0	0	0
MINING	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0
ENGINEERING, N.E.C.	60	8	0	14	28	10
SCIENCES, TOTAL	2,001	144	153	311	251	1,142
PHYSICAL SCIENCES	239	16	18	97	74	34
ASTRONOMY	0	0	0	0	0	0
CHEMISTRY	169	11	18	74	53	13
PHYSICS	64	5	0	23	21	15
PHYSICAL SCIENCES, N.E.C.	6	0	0	0	0	6
ENVIRONMENTAL SCIENCES	7	0	0	3	1	3
ATMOSPHERIC SCIENCES	0	0	0	0	0	0
GEOSCIENCES	7	0	0	3	1	3
OCEANOGRAPHY	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	0	0	0	0	0	0
MATHEMATICAL SCIENCES	143	5	0	16	27	95
COMPUTER SCIENCES	206	4	0	19	6	177
LIFE SCIENCES	496	35	103	104	98	156
AGRICULTURAL SCIENCES	26	7	0	3	2	14
BIOLOGICAL SCIENCES	348	20	62	95	81	90
ANATOMY	9	0	4	0	5	0
BIOCHEMISTRY	14	0	0	0	7	7
BIOLOGY	149	5	17	48	37	42
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0
BOTANY	31	0	0	17	9	5
CELL BIOLOGY	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0
GENETICS	29	5	0	7	2	15
MICROBIOLOGY	14	1	8	0	5	0
NUTRITION	32	4	0	19	0	9
PATHOLOGY	0	0	0	0	0	0
PHARMACOLOGY	16	2	8	0	1	5
PHYSIOLOGY	19	3	11	0	2	3
ZOOLOGY	17	0	0	2	13	2
BIOSCIENCES, N.E.C.	18	0	14	2	0	2
HEALTH SCIENCES	122	8	41	6	15	52
DENTISTRY	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0
NURSING	28	0	23	0	0	5
PHARMACEUTICAL SCIENCES	15	0	0	0	11	4
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	0	0	0	0	0
SPEECH PATHOLOGY/AUDIOLOGY	54	8	7	4	4	31
VETERINARY SCIENCES	20	0	8	0	0	12
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0
HEALTH RELATED, N.E.C.	5	0	3	2	0	0
PSYCHOLOGY	183	15	0	13	17	138
SOCIAL SCIENCES	727	69	32	59	28	539
AGRICULTURAL ECONOMICS	38	8	0	18	0	12
ANTHROPOLOGY	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	91	10	4	8	7	62
GEOGRAPHY	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0
LINGUISTICS	72	24	0	0	10	38
POLITICAL SCIENCE	249	13	2	4	5	225
SOCIOLOGY	91	6	0	11	4	70
SOCIOLOGY/ANTHROPOLOGY	27	7	8	2	0	10
SOCIAL SCIENCES, N.E.C.	159	1	18	16	2	122

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 17 - SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD: 1980-86

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1980	1981	1982	1983	1984	1985	1986	1980-85	1985-86	1980-86
TOTAL, ALL FIELDS	3,318	3,496	3,380	3,556	3,937	3,649	3,515	1.9	-3.7	1.0
ENGINEERING	264	242	267	311	405	342	374	5.3	9.4	6.0
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0	0
CIVIL	85	53	44	47	65	46	47	-11.6	2.2	-9.4
ELECTRICAL	46	66	64	94	131	121	61	21.3	-49.6	4.8
ENGINEERING SCIENCE	0	0	0	0	0	0	0	**	**	**
INDUSTRIAL	26	7	8	23	37	20	0	-5.1	-100.0	-100.0
MECHANICAL	22	30	30	47	93	81	63	29.8	-22.2	19.2
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	**	**	**
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	85	86	121	100	79	74	203	-2.7	174.3	15.6
SCIENCES, TOTAL	3,054	3,254	3,113	3,245	3,532	3,307	3,141	1.6	-5.0	.5
PHYSICAL SCIENCES	248	284	288	319	347	320	299	5.2	-6.6	3.2
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	195	217	226	250	269	228	196	3.2	-14.0	.1
PHYSICS	53	67	58	57	65	72	84	6.3	16.7	8.0
PHYSICAL SCIENCES, N.E.C.	0	0	4	12	13	20	19	**	-5.0	**
ENVIRONMENTAL SCIENCES	30	23	31	32	39	34	19	2.5	-44.1	-7.3
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	9	2	13	16	23	17	19	13.6	11.8	13.3
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	21	21	18	16	16	17	0	-4.1	-100.0	-100.0
MATHEMATICAL SCIENCES	154	168	206	235	266	240	265	9.3	10.4	9.5
COMPUTER SCIENCES	139	150	232	271	320	304	279	16.9	-8.2	12.3
LIFE SCIENCES	841	835	858	852	827	728	666	-2.8	-8.5	-3.8
AGRICULTURAL SCIENCES	72	83	87	82	109	66	55	-1.7	-16.7	-4.4
BIOLOGICAL SCIENCES	640	610	605	593	536	479	447	-5.6	-6.7	-5.8
ANATOMY	7	8	10	8	6	11	9	9.5	-18.2	4.3
BIOCHEMISTRY	21	21	22	18	19	11	14	-12.1	27.3	-6.5
BIOLOGY	362	323	334	323	301	267	229	-5.9	-14.2	-7.3
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	39	50	45	44	17	16	37	-16.3	131.3	-.9
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	13	16	25	27	29	30	32	18.2	6.7	16.2
MICROBIOLOGY	21	27	24	26	24	21	14	.0	-33.3	-6.5
NUTRITION	39	39	36	20	36	34	34	-2.7	.0	-2.3
PATHOLOGY	0	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	42	34	35	36	25	15	17	-18.6	13.3	-14.0
PHYSIOLOGY	14	17	14	19	22	27	20	14.0	-25.9	6.1
ZOOLOGY	66	55	41	40	29	25	22	-17.6	-12.0	-16.7
BIOSCIENCES, N.E.C.	16	20	19	32	28	22	19	6.6	-13.6	2.9
HEALTH SCIENCES	129	142	166	177	182	183	164	7.2	-10.4	4.1
DENTISTRY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	46	45	63	68	59	46	38	.0	-17.4	-3.1
PHARMACEUTICAL SCIENCES	15	15	12	13	13	16	15	1.3	-6.3	.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	14	11	8	11	0	0	0	-100.0	**	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	39	48	58	59	81	84	83	16.6	-1.2	13.4
VETERINARY SCIENCES	15	23	25	26	26	27	23	12.5	-14.8	7.4
CLINICAL MEDICINE, N.E.C.	0	0	0	0	3	0	0	**	**	**
HEALTH RELATED, N.E.C.	0	0	0	0	0	10	5	**	-50.0	**
PSYCHOLOGY	291	268	227	384	436	404	419	6.8	3.7	6.3
SOCIAL SCIENCES	1,351	1,526	1,271	1,152	1,297	1,277	1,194	-1.1	-6.5	-2.0
AGRICULTURAL ECONOMICS	35	22	39	53	62	63	57	12.5	-9.5	8.5
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	175	250	284	106	135	161	147	-1.7	-8.7	-2.9
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	124	104	24	43	137	129	129	.8	.0	.7
POLITICAL SCIENCE	450	452	286	297	392	345	389	-5.2	12.8	-2.4
SOCIOLOGY	124	283	217	214	173	226	179	12.8	-20.8	6.3
SOCIOLOGY/ANTHROPOLOGY	102	95	105	113	113	80	60	-4.7	-25.0	-8.5
SOCIAL SCIENCES, N.E.C.	341	320	316	326	285	273	233	-4.4	-14.7	-6.2

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 18 — MALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD: 1980–86

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1980	1981	1982	1983	1984	1985	1986	1980–85	1985–86	1980–86
TOTAL, ALL FIELDS	1,983	2,119	1,928	2,002	2,324	2,147	2,048	1.6	-4.6	.5
ENGINEERING	245	226	242	274	364	306	315	4.5	2.9	4.3
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0	0
CIVIL	75	46	32	33	54	37	27	-13.2	-27.0	-15.7
ELECTRICAL	45	62	61	87	121	110	50	19.6	-54.5	1.8
ENGINEERING SCIENCE	0	0	0	0	0	0	0	**	**	**
INDUSTRIAL	23	6	8	18	32	13	0	-10.8	-100.0	-100.0
MECHANICAL	21	30	29	45	86	74	60	28.6	-18.9	19.1
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	**	**	**
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	81	82	112	91	71	72	178	-2.3	147.2	14.0
SCIENCES, TOTAL	1,738	1,893	1,686	1,728	1,960	1,841	1,733	1.2	-5.9	•
PHYSICAL SCIENCES	175	199	182	197	235	207	214	3.4	3.4	3.4
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	128	141	135	145	171	135	136	1.1	.7	1.0
PHYSICS	47	58	46	47	58	64	71	6.4	10.9	7.1
PHYSICAL SCIENCES, N.E.C.	0	0	1	5	6	8	7	**	-12.5	**
ENVIRONMENTAL SCIENCES	18	18	19	16	20	27	10	8.4	-63.0	-9.3
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	6	1	7	6	9	12	10	14.9	-16.7	8.9
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	12	17	12	10	11	15	0	4.6	-100.0	-100.0
MATHEMATICAL SCIENCES	68	87	111	139	162	140	160	15.5	14.3	15.3
COMPUTER SCIENCES	101	96	150	185	221	220	196	16.8	-10.9	11.7
LIFE SCIENCES	467	449	422	421	410	311	306	-7.8	-1.6	-6.8
AGRICULTURAL SCIENCES	50	70	74	68	102	51	46	.4	-9.8	-1.4
BIOLOGICAL SCIENCES	383	340	316	321	274	222	225	-10.3	1.4	-8.5
ANATOMY	4	5	5	5	4	4	3	.0	-25.0	-4.7
BIOCHEMISTRY	18	12	11	11	12	6	9	-19.7	50.0	-10.9
BIOLOGY	218	182	177	173	151	114	92	-12.2	-19.3	-13.4
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	24	30	10	9	11	7	26	-21.8	271.4	1.3
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	4	6	6	12	11	13	14	26.6	7.7	23.2
MICROBIOLOGY	9	10	11	8	8	9	6	.0	-33.3	-6.5
NUTRITION	23	30	25	16	29	25	25	1.7	.0	1.4
PATHOLOGY	0	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	28	21	21	21	13	4	8	-32.2	100.0	-18.8
PHYSIOLOGY	5	8	10	14	13	16	15	26.2	-6.3	20.1
ZOOLOGY	44	27	31	30	14	14	16	-20.5	14.3	-15.5
BIOSCIENCES, N.E.C.	6	9	9	22	8	10	11	10.8	10.0	10.6
HEALTH SCIENCES	34	39	32	32	34	38	35	2.2	-7.9	.5
DENTISTRY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	1	0	0	1	1	0	1	-100.0	**	.0
PHARMACEUTICAL SCIENCES	10	15	8	9	9	11	10	1.9	-9.1	.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	5	6	3	7	0	0	0	-100.0	**	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	3	3	5	3	3	2	2	-7.8	.0	-6.5
VETERINARY SCIENCES	15	15	16	12	20	22	20	8.0	-9.1	4.9
CLINICAL MEDICINE, N.E.C.	0	0	0	0	1	0	0	**	**	**
HEALTH RELATED, N.E.C.	0	0	0	0	0	3	2	**	-33.3	**
PSYCHOLOGY	142	110	97	177	194	177	167	4.5	-5.6	2.7
SOCIAL SCIENCES	767	934	705	593	718	759	680	-.2	-10.4	-2.0
AGRICULTURAL ECONOMICS	30	17	33	44	53	55	49	12.9	-10.9	8.5
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	139	215	195	76	101	131	114	-1.2	-13.0	-3.3
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	45	33	3	10	50	43	43	-.9	.0	-.8
POLITICAL SCIENCE	279	298	164	162	252	227	250	-4.0	10.1	-1.8
SOCIOLOGY	58	153	107	105	63	117	77	15.1	-34.2	4.8
SOCIOLOGY/ANTHROPOLOGY	56	43	41	41	53	43	27	-5.1	-37.2	-11.4
SOCIAL SCIENCES, N.E.C.	160	175	162	155	146	143	120	-2.2	-16.1	-4.7

• - LESS THAN 0.05-PERCENT CHANGE

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 19 — FEMALE SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD: 1980-86

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1980	1981	1982	1983	1984	1985	1986	1980-85	1985-86	1980-86
TOTAL, ALL FIELDS	1,335	1,377	1,452	1,554	1,613	1,502	1,467	2.4	-2.3	1.6
ENGINEERING	19	16	25	37	41	36	59	13.6	63.9	20.8
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0	0
CIVIL	10	7	12	14	11	9	20	-2.1	122.2	12.2
ELECTRICAL	1	4	3	7	10	11	11	61.5	.0	49.1
ENGINEERING SCIENCE	0	0	0	0	0	0	0	0	0	0
INDUSTRIAL	3	1	0	5	5	7	0	18.5	-100.0	-100.0
MECHANICAL	1	0	1	2	7	7	3	47.6	-57.1	20.1
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0	0	0
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	4	4	9	9	8	2	25	-12.9	1150.0	35.7
SCIENCES, TOTAL	1,316	1,361	1,427	1,517	1,572	1,466	1,408	2.2	-4.0	1.1
PHYSICAL SCIENCES	73	85	106	122	112	113	85	9.1	-24.8	2.6
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	67	76	91	105	98	93	60	6.8	-35.5	-1.8
PHYSICS	6	9	12	10	7	8	13	5.9	62.5	13.8
PHYSICAL SCIENCES, N.E.C.	0	0	3	7	7	12	12	**	.0	**
ENVIRONMENTAL SCIENCES	12	5	12	16	19	7	9	-10.2	28.6	-4.7
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	3	1	6	10	14	5	9	10.8	80.0	20.1
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	9	4	6	6	5	2	0	-26.0	-100.0	-100.0
MATHEMATICAL SCIENCES	86	81	95	96	104	100	105	3.1	5.0	3.4
COMPUTER SCIENCES	38	54	82	86	99	84	83	17.2	-1.2	13.9
LIFE SCIENCES	374	386	436	431	417	417	360	2.2	-13.7	-.6
AGRICULTURAL SCIENCES	22	13	13	14	7	15	9	-7.4	-40.0	-13.8
BIOLOGICAL SCIENCES	257	270	289	272	262	257	222	.0	-13.6	-2.4
ANATOMY	3	3	5	3	2	7	6	18.5	-14.3	12.2
BIOCHEMISTRY	3	9	11	7	7	5	5	10.8	.0	8.9
BIOLOGY	144	141	157	150	150	153	137	1.2	-10.5	-.8
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	15	20	35	35	6	9	11	-9.7	22.2	-5.0
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	9	10	19	15	18	17	18	13.6	5.9	12.2
MICROBIOLOGY	12	17	13	18	16	12	8	.0	-33.3	-6.5
NUTRITION	16	9	11	4	7	9	9	-10.9	.0	-9.1
PATHOLOGY	0	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	14	13	14	15	12	11	9	-4.7	-18.2	-7.1
PHYSIOLOGY	9	9	4	5	9	11	5	4.1	-54.5	-9.3
ZOOLOGY	22	28	10	10	15	11	6	-12.9	-45.5	-19.5
BIOSCIENCES, N.E.C.	10	11	10	10	20	12	8	3.7	-33.3	-3.7
HEALTH SCIENCES	95	103	134	145	148	145	129	8.8	-11.0	5.2
DENTISTRY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	45	45	63	67	58	46	37	.4	-19.6	-3.2
PHARMACEUTICAL SCIENCES	5	0	4	4	4	5	5	.0	.0	.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	9	5	5	4	0	0	0	-100.0	**	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	36	45	53	56	78	82	81	17.9	-1.2	14.5
VETERINARY SCIENCES	0	8	9	14	6	5	3	**	-40.0	**
CLINICAL MEDICINE, N.E.C.	0	0	0	0	2	0	0	**	**	**
HEALTH RELATED, N.E.C.	0	0	0	0	0	7	3	**	-57.1	**
PSYCHOLOGY	149	158	130	207	242	227	252	8.8	11.0	9.2
SOCIAL SCIENCES	584	592	566	559	579	518	514	-2.4	-.8	-2.1
AGRICULTURAL ECONOMICS	5	5	6	9	9	8	8	9.9	.0	8.1
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	36	35	89	30	34	30	33	-3.6	10.0	-1.4
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	79	71	21	33	87	86	86	1.7	.0	1.4
POLITICAL SCIENCE	171	154	122	135	140	118	139	-7.2	17.8	-3.4
SOCIOLOGY	66	130	110	109	110	109	102	10.6	-6.4	7.5
SOCIOLOGY/ANTHROPOLOGY	46	52	64	72	60	37	33	-4.3	-10.8	-5.4
SOCIAL SCIENCES, N.E.C.	181	145	154	171	139	130	113	-6.4	-13.1	-7.6

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 20 — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD: 1980-86

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1980	1981	1982	1983	1984	1985	1986	1980-85	1985-86	1980-86
TOTAL, ALL FIELDS	2,322	2,505	2,326	2,322	2,411	2,389	2,198	.6	-8.0	-.9
ENGINEERING	191	170	192	195	258	273	197	7.4	-27.8	.5
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0	0
CIVIL	68	43	31	34	38	42	32	-9.2	-23.8	-11.8
ELECTRICAL	37	59	57	84	102	111	45	24.6	-59.5	3.3
ENGINEERING SCIENCE	0	0	0	0	0	0	0	**	**	**
INDUSTRIAL	16	7	8	10	22	18	0	2.4	-100.0	-100.0
MECHANICAL	17	25	26	34	63	71	60	33.1	-15.5	23.4
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	**	**	**
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	53	36	70	33	33	31	60	-10.2	93.5	2.1
SCIENCES, TOTAL	2,131	2,335	2,134	2,127	2,153	2,116	2,001	-.1	-5.4	-1.0
PHYSICAL SCIENCES	212	255	256	271	258	262	239	4.3	-8.8	2.0
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	165	193	205	222	205	194	169	3.3	-12.9	.4
PHYSICS	47	62	50	49	52	65	64	6.7	-1.5	5.3
PHYSICAL SCIENCES, N.E.C.	0	0	1	0	1	3	6	**	100.0	**
ENVIRONMENTAL SCIENCES	20	18	29	27	25	25	7	4.6	-72.0	-16.1
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	1	0	11	11	9	8	7	51.6	-12.5	38.3
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	19	18	18	16	16	17	0	-2.2	-100.0	-100.0
MATHEMATICAL SCIENCES	101	120	111	137	139	141	143	6.9	1.4	6.0
COMPUTER SCIENCES	96	87	133	185	202	212	206	17.2	-2.8	13.6
LIFE SCIENCES	613	616	642	674	618	531	496	-2.8	-6.6	-3.5
AGRICULTURAL SCIENCES	41	42	46	39	79	27	26	-8.0	-3.7	-7.3
BIOLOGICAL SCIENCES	491	479	487	511	422	369	348	-5.6	-5.7	-5.6
ANATOMY	7	8	10	8	6	11	9	9.5	-18.2	4.3
BIOCHEMISTRY	21	21	22	18	19	11	14	-12.1	27.3	6.5
BIOLOGY	247	220	242	260	218	172	149	-7.0	-13.4	-8.1
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	23	37	33	32	5	11	31	-13.7	181.8	5.1
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	13	16	25	25	27	27	29	15.7	7.4	14.3
MICROBIOLOGY	21	27	26	26	24	20	14	-1.0	-30.0	-6.5
NUTRITION	34	37	28	20	36	34	32	.0	-5.9	-1.0
PATHOLOGY	0	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	38	32	32	34	24	15	16	-17.0	6.7	-13.4
PHYSIOLOGY	14	17	14	19	22	26	19	13.2	-26.9	5.2
ZOOLOGY	61	45	39	38	18	23	17	-17.7	-26.1	-19.2
BIOSCIENCES, N.E.C.	12	19	18	31	23	19	18	9.6	-5.3	7.0
HEALTH SCIENCES	81	95	109	124	117	135	122	10.8	-9.6	7.1
DENTISTRY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	19	23	40	47	29	34	28	12.3	-17.6	6.7
PHARMACEUTICAL SCIENCES	15	15	12	13	13	16	15	1.3	-6.3	.0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	14	6	6	10	0	0	0	-100.0	**	-100.0
SPEECH PATHOLOGY/AUDIOLOGY	21	29	29	28	49	51	54	19.4	5.9	17.0
VETERINARY SCIENCES	12	22	22	26	23	24	20	14.9	-16.7	8.9
CLINICAL MEDICINE, N.E.C.	0	0	0	0	3	0	0	**	**	**
HEALTH RELATED, N.E.C.	0	0	0	0	0	10	5	**	-50.0	**
PSYCHOLOGY	178	153	120	132	173	159	183	-2.2	15.1	.5
SOCIAL SCIENCES	911	1,086	823	701	738	786	727	-2.9	-7.5	-3.7
AGRICULTURAL ECONOMICS	31	20	19	50	49	41	38	5.8	-7.3	3.5
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	133	210	234	60	59	103	91	-5.0	-11.7	-6.1
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	83	84	19	38	61	72	72	-2.8	.0	-2.3
POLITICAL SCIENCE	312	332	162	143	245	216	249	-7.1	15.3	-3.7
SOCIOLOGY	68	194	128	136	97	141	91	15.7	-35.5	5.0
SOCIOLOGY/ANTHROPOLOGY	43	47	74	81	61	49	27	2.6	-44.9	-7.5
SOCIAL SCIENCES, N.E.C.	241	199	187	193	166	164	159	-7.4	-3.0	-6.7

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 21 — FULL-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY TYPE AND SOURCE OF MAJOR SUPPORT: 1980-86

TYPE AND SOURCE OF MAJOR SUPPORT	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1980	1981	1982	1983	1984	1985	1986	1980-85	1985-86	1980-86
TOTAL, ALL TYPES:										
TOTAL, ALL SOURCES	2,322	2,505	2,326	2,322	2,411	2,389	2,198	.6	-8.0	-.9
FEDERAL, TOTAL	622	597	591	553	611	718	575	2.9	-19.9	-1.3
DEPT OF DEFENSE	18	22	20	33	50	38	54	16.1	42.1	20.1
DEPT OF HHS, TOTAL	318	218	231	220	225	215	210	-7.5	-2.3	-6.7
NIH	227	175	190	187	181	165	154	-6.2	-6.7	-6.3
OTHER HHS	91	43	41	33	44	50	56	-11.3	12.0	-7.8
NSF	85	103	70	50	39	25	33	-21.7	32.0	-14.6
ALL OTHER FEDERAL	201	254	270	250	297	440	278	17.0	-36.8	5.6
INSTITUTIONAL SUPPORT	674	625	643	673	609	428	481	-8.7	12.4	-5.5
OTHER OUTSIDE SUPPORT, TOTAL	113	93	141	176	114	105	173	-1.5	64.8	7.4
ALL OTHER U.S.	70	67	105	136	94	80	150	2.7	87.5	13.5
FOREIGN	43	26	36	40	20	25	23	-10.3	-8.0	-9.9
SELF-SUPPORT	913	1,190	951	920	1,077	1,138	969	4.5	-14.9	1.0
FELLOWSHIPS:										
TOTAL, ALL SOURCES	191	242	276	272	252	264	164	6.7	-37.9	-2.5
FEDERAL, TOTAL	83	95	99	69	99	145	92	11.8	-36.6	1.7
DEPT OF DEFENSE	2	1	0	0	3	0	0	-100.0	**	-100.0
DEPT OF HHS, TOTAL	34	23	17	15	18	30	16	-2.5	-46.7	-11.8
NIH	10	21	12	5	13	21	7	16.0	-66.7	-5.8
OTHER HHS	24	2	5	10	5	9	9	-17.8	.0	-15.1
NSF	14	26	12	10	7	10	5	-6.5	-50.0	-15.8
ALL OTHER FEDERAL	33	45	70	44	71	105	71	26.0	-32.4	13.6
INSTITUTIONAL SUPPORT	80	114	108	108	100	70	53	-2.6	-24.3	-6.6
OTHER OUTSIDE SUPPORT, TOTAL	28	33	69	95	53	49	19	11.8	-61.2	-4.3
ALL OTHER U.S.	17	19	58	73	39	31	10	12.8	-67.7	-8.5
FOREIGN	11	14	11	22	14	18	9	10.4	-50.0	-3.3
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
TRAINEESHIPS:										
TOTAL, ALL SOURCES	239	226	216	220	208	174	178	-6.2	2.3	-4.8
FEDERAL, TOTAL	194	211	189	185	185	155	130	-4.4	-16.1	-6.5
DEPT OF DEFENSE	0	0	1	5	1	0	0	**	**	**
DEPT OF HHS, TOTAL	145	117	118	110	127	113	115	-4.9	1.8	-3.8
NIH	103	88	96	93	90	72	73	-6.9	1.4	-5.6
OTHER HHS	42	29	22	17	37	41	42	-.5	2.4	.0
NSF	38	43	37	19	8	1	2	-51.7	100.0	-38.8
ALL OTHER FEDERAL	11	51	33	51	49	41	13	30.1	-68.3	2.8
INSTITUTIONAL SUPPORT	41	11	20	25	18	18	38	-15.2	111.1	-1.3
OTHER OUTSIDE SUPPORT, TOTAL	4	4	7	10	5	1	10	-24.2	900.0	16.5
ALL OTHER U.S.	4	4	3	0	1	1	3	-24.2	200.0	-4.7
FOREIGN	0	0	4	10	4	0	7	**	**	**
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
RESEARCH ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	340	353	324	362	423	329	351	-.7	6.7	.5
FEDERAL, TOTAL	258	214	229	243	274	274	260	1.2	-5.1	.1
DEPT OF DEFENSE	11	16	14	27	45	38	40	28.1	5.3	24.0
DEPT OF HHS, TOTAL	100	74	85	85	76	65	70	-8.3	7.7	-5.8
NIH	99	66	77	80	76	65	65	-8.1	.0	-6.8
OTHER HHS	1	8	8	5	0	0	5	-100.0	**	30.8
NSF	27	28	18	18	18	14	23	-12.3	64.3	-2.6
ALL OTHER FEDERAL	120	96	112	113	135	157	127	5.5	-19.1	.9
INSTITUTIONAL SUPPORT	58	113	79	103	118	38	70	-8.1	84.2	3.2
OTHER OUTSIDE SUPPORT, TOTAL	24	26	16	16	31	17	21	-4.7	23.5	-2.2
ALL OTHER U.S.	16	19	14	15	30	11	15	-7.2	36.4	-1.1
FOREIGN	8	7	2	1	1	6	6	-5.6	.0	-4.7
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
TEACHING ASSISTANTSHIPS:										
TOTAL, ALL SOURCES	379	303	385	357	323	307	308	-4.1	.3	-3.4
FEDERAL, TOTAL	24	6	16	3	7	52	35	16.7	-32.7	6.5
DEPT OF DEFENSE	0	0	0	0	0	0	0	0	0	0
DEPT OF HHS, TOTAL	6	0	8	3	2	2	2	-19.7	.0	-16.7
NIH	1	0	2	3	0	2	2	14.9	.0	12.2
OTHER HHS	5	0	6	0	2	0	0	-100.0	**	-100.0
NSF	6	0	0	0	4	0	3	-100.0	**	-10.9
ALL OTHER FEDERAL	12	6	8	0	1	50	30	33.0	-40.0	16.5
INSTITUTIONAL SUPPORT	352	291	357	350	296	236	252	-7.7	6.8	-5.4
OTHER OUTSIDE SUPPORT, TOTAL	3	6	12	4	20	19	21	44.7	10.5	38.3
ALL OTHER U.S.	3	6	12	4	20	19	21	44.7	10.5	38.3
FOREIGN	0	0	0	0	0	0	0	0	0	0
SELF-SUPPORT	0	0	0	0	0	0	0	0	0	0
OTHER TYPES OF SUPPORT:										
TOTAL, ALL SOURCES	1,173	1,381	1,125	1,111	1,205	1,315	1,197	2.3	-9.0	.3
FEDERAL, TOTAL	63	71	58	53	46	92	58	7.9	-37.0	-1.4
DEPT OF DEFENSE	5	5	5	1	1	0	14	-100.0	**	18.7
DEPT OF HHS, TOTAL	33	4	3	7	2	5	7	-31.4	40.0	-22.8
NIH	14	0	3	6	2	5	7	-18.6	40.0	-10.9
OTHER HHS	19	4	0	1	0	0	0	-100.0	**	-100.0
NSF	0	6	3	3	2	0	0	**	**	**
ALL OTHER FEDERAL	25	56	47	42	41	87	37	28.3	-57.5	6.8
INSTITUTIONAL SUPPORT	143	96	79	87	77	66	68	-14.3	3.0	-11.7
OTHER OUTSIDE SUPPORT, TOTAL	54	24	37	51	5	19	102	-18.9	436.8	11.2
ALL OTHER U.S.	30	19	18	44	4	18	101	-9.7	461.1	22.4
FOREIGN	24	5	19	7	1	1	1	-47.0	.0	-41.1
SELF-SUPPORT	913	1,190	951	920	1,077	1,138	969	4.5	-14.9	1.0

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 22 — PART-TIME SCIENCE/ENGINEERING GRADUATE STUDENTS IN HISTORICALLY BLACK COLLEGES AND UNIVERSITIES BY FIELD: 1980–86

FIELD	NUMBER							AVERAGE ANNUAL PERCENT CHANGE		
	1980	1981	1982	1983	1984	1985	1986	1980–85	1985–86	1980–86
TOTAL, ALL FIELDS	996	991	1,054	1,234	1,526	1,260	1,317	4.8	4.5	4.8
ENGINEERING	73	72	75	116	147	69	177	-1.1	156.5	15.9
AEROSPACE	0	0	0	0	0	0	0	0	0	0
AGRICULTURAL	0	0	0	0	0	0	0	0	0	0
BIOMEDICAL	0	0	0	0	0	0	0	0	0	0
CHEMICAL	0	0	0	0	0	0	0	0	0	0
CIVIL	17	10	13	13	27	4	15	-25.1	275.0	-2.1
ELECTRICAL	9	7	7	10	29	10	16	2.1	60.0	10.1
ENGINEERING SCIENCE	0	0	0	0	0	0	0	••	••	••
INDUSTRIAL	10	0	0	13	15	2	0	-27.5	-100.0	-100.0
MECHANICAL	5	5	4	13	30	10	3	14.9	-70.0	-8.2
METALLURGICAL/MATERIALS	0	0	0	0	0	0	0	0	0	0
MINING	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	••	••	••
PETROLEUM	0	0	0	0	0	0	0	0	0	0
ENGINEERING, N.E.C.	32	50	51	67	46	43	143	6.1	232.6	28.3
SCIENCES, TOTAL	923	919	979	1,118	1,379	1,191	1,140	5.2	-4.3	3.6
PHYSICAL SCIENCES	36	29	32	48	89	58	60	10.0	3.4	8.9
ASTRONOMY	0	0	0	0	0	0	0	0	0	0
CHEMISTRY	30	24	21	28	64	34	27	2.5	-20.6	-1.7
PHYSICS	6	5	8	8	13	7	20	3.1	185.7	22.2
PHYSICAL SCIENCES, N.E.C.	0	0	3	12	12	17	13	••	-23.5	••
ENVIRONMENTAL SCIENCES	10	5	2	5	14	9	12	-2.1	33.3	3.1
ATMOSPHERIC SCIENCES	0	0	0	0	0	0	0	0	0	0
GEOSCIENCES	8	2	2	5	14	9	12	2.4	33.3	7.0
OCEANOGRAPHY	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL SCIENCES, N.E.C.	2	3	0	0	0	0	0	-100.0	••	-100.0
MATHEMATICAL SCIENCES	53	48	95	98	127	99	122	13.3	23.2	14.9
COMPUTER SCIENCES	43	63	79	86	118	92	73	16.4	-20.7	9.2
LIFE SCIENCES	228	219	216	178	209	197	170	-2.9	-13.7	-4.8
AGRICULTURAL SCIENCES	31	41	41	43	30	39	29	4.7	-25.6	-1.1
BIOLOGICAL SCIENCES	149	131	118	82	114	110	99	-5.9	-10.0	-6.6
ANATOMY	0	0	0	0	0	0	0	••	••	••
BIOCHEMISTRY	0	0	0	0	0	0	0	0	0	0
BIOLOGY	115	103	92	63	83	95	80	-3.7	-15.8	-5.9
BIOMETRY/EPIDEMIOLOGY	0	0	0	0	0	0	0	0	0	0
BIOPHYSICS	0	0	0	0	0	0	0	0	0	0
BOTANY	16	13	12	12	12	5	6	-20.8	20.0	-15.1
CELL BIOLOGY	0	0	0	0	0	0	0	0	0	0
ECOLOGY	0	0	0	0	0	0	0	0	0	0
ENTOMOLOGY/PARASITOLOGY	0	0	0	0	0	0	0	0	0	0
GENETICS	0	0	0	2	2	3	3	••	.0	••
MICROBIOLOGY	0	0	0	0	0	1	0	••	-100.0	••
NUTRITION	5	2	8	0	0	0	2	-100.0	••	-14.2
PATHOLOGY	0	0	0	0	0	0	0	0	0	0
PHARMACOLOGY	4	2	3	2	1	0	1	-100.0	••	-20.6
PHYSIOLOGY	0	0	0	0	0	1	1	••	.0	••
ZOOLOGY	5	10	2	2	11	2	5	-16.7	150.0	.0
BIOSCIENCES, N.E.C.	4	1	1	1	5	3	1	-5.6	-66.7	-20.6
HEALTH SCIENCES	48	47	57	53	65	48	42	.0	-12.5	-2.2
DENTISTRY	0	0	0	0	0	0	0	0	0	0
NEUROLOGY	0	0	0	0	0	0	0	0	0	0
NURSING	27	22	23	21	30	12	10	-15.0	-16.7	-15.3
PHARMACEUTICAL SCIENCES	0	0	0	0	0	0	0	0	0	0
PREVENTIVE MEDICINE/ COMMUNITY HEALTH	0	5	2	1	0	0	0	••	••	••
SPEECH PATHOLOGY/AUDIOLOGY	18	19	29	31	32	33	29	12.9	-12.1	8.3
VETERINARY SCIENCES	3	1	3	0	3	3	3	.0	.0	.0
CLINICAL MEDICINE, N.E.C.	0	0	0	0	0	0	0	••	••	••
HEALTH RELATED, N.E.C.	0	0	0	0	0	0	0	0	0	0
PSYCHOLOGY	113	115	107	252	263	245	236	16.7	-3.7	13.1
SOCIAL SCIENCES	440	440	448	451	559	491	467	2.2	-4.9	1.0
AGRICULTURAL ECONOMICS	4	2	20	3	13	22	19	40.6	-13.6	29.7
ANTHROPOLOGY	0	0	0	0	0	0	0	0	0	0
ECONOMICS (EXCEPT AGRICULTURAL)	42	40	50	46	76	58	56	6.7	-3.4	4.9
GEOGRAPHY	0	0	0	0	0	0	0	0	0	0
HISTORY AND PHILOSOPHY OF SCIENCE	0	0	0	0	0	0	0	0	0	0
LINGUISTICS	41	20	5	5	76	57	57	6.8	.0	5.6
POLITICAL SCIENCE	138	120	124	154	147	129	140	-1.3	8.5	.2
SOCIOLOGY	56	89	89	78	76	85	88	8.7	3.5	7.8
SOCIOLOGY/ANTHROPOLOGY	59	48	31	32	52	31	33	-12.1	6.5	-9.2
SOCIAL SCIENCES, N.E.C.	100	121	129	133	119	109	74	1.7	-32.1	-4.9

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.

Table 23 -- SUMMARY OF RESPONSES FROM ALL DEPARTMENTS AT ALL HISTORICALLY BLACK INSTITUTIONS: FALL 1986

Number of departments: 149

5. FULL-TIME GRADUATE S/E STUDENTS	Students Receiving Financial Assistance										
	Federal Sources (excluding loans)						Non-Federal Sources			Self support (includ. loans & family sources)	Total for all sources (sum of columns A - I)
		HHS									
	DOD (A)	NIH (B)	Other HHS (C)	NSF (D)	Dept. of Agr. (E)	Other Federal sources (F)	Institutional support (G)	Foreign sources (H)	Other U.S. sources (I)	(J)	(K)
Graduate Fellowships (1)	0	7	9	5	0	71	53	9	10		164
Graduate Traineeships (2)	0	73	42	2	0	13	38	7	3		178
Graduate Research Assistants (3)	40	65	5	23	39	88	70	6	15		351
Graduate Teaching Assistants (4)		2	0	3	0	30	252		21		308
Other Types of Support (5)	14	7	0	0	7	30	68	1	101	969	1197
FULL-TIME TOTAL (6)	54	154	56	33	46	232	481	23	150	969	2198
Full-time Women (7)	18	79	44	15	7	95	201	3	59	359	880
Full-time First-year Total (8)											656
Full-time First-year Women (9)											279

6. PART-TIME GRADUATE S/E STUDENTS	
Total (1)	1317
Women (2)	587

7. RACIAL/ETHNIC BACKGROUND OF GRADUATE S/E STUDENTS	U.S. Citizens Only							Total (sum of columns A - G)
	Black non-Hispanic (A)	American Indian/ Alaskan (B)	Asian/ Pacific Islander (C)	Hispanic (D)	White non-Hispanic (E)	Other or unknown (F)	Foreign (G)	(H)
Full-time (1)	1068	1	56	14	133	37	889	2198
Part-time (2)	711	1	20	5	211	56	313	1317

8. S/E POSTDOCTORATES AND NON-FACULTY DOCTORAL RESEARCH STAFF	Postdoctorates							Other non-fac. doctoral research staff (G)
	Source of Support				Total for all sources (A - D) (E)	Foreign postdoctorates (F)		
	Federal			Non-Federal (D)				
	Fellowships (A)	Traineeships (B)	Research grants (C)					
Total (1)	10	3	21	16	50	28		8
Women (2)	4	1	4	0	9	2		1
With MD, DDS, or DVM degrees (3)	0	1	0	0	1	0		0

SOURCE: NATIONAL SCIENCE FOUNDATION, SRS.